LIBRARY
FISH & WILDLIFE SERVICE
PACIFIC OCEANIC FISHERY
INVESTIGATIONS

METHODS OF ESTIMATING THE SIGNIFICANCE OF DIFFERENCES IN OR PROBABILITIES OF FLUCTUATIONS DUE TO RANDOM SAMPLING

Numerical illustrations, formulae, and tables prepared especially for estimating probabilities when the usual "method of least squares" or "normal law of error" may not apply

BY

GEORGE FRANCIS McEWEN

BULLETIN OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
LA JOLLLA, CALIFORNIA
TECHNICAL SERIES, Volume 2, No. 1, pp. 1–137

UNIVERSITY OF CALIFORNIA PRESS
BERKELEY, CALIFORNIA
1929

The SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA, CALIFORNIA, announces the beginning of a new series of its **Bulletin**—the **Technical Series.** The following numbers have been issued. Other numbers are in preparation.

Earlier papers from the Institution have appeared as **Bulletins of the Scripps Institution for Biological Research,** and as contributions to the series, **University of California Publications in Zoology.**

BULLETIN OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY, TECHNICAL SERIES.—Edited by T. WAYLAND VAUGHAN, F. B. SUMNER, and G. F. MCEWEN.

VOLUME 1. 1927–

1. Effect of Tidal Changes on Physical, Chemical, and Biological Conditions in the Sea Water of the San Diego Region, by Erik G. Moberg and Winfred Emory Allen. March, 1927 ..... .25
2. Quantitative Studies on Inshore Marine Diatoms and Dinoflagellates of Southern California in 1921, by Winfred Emory Allen.
3. *Idem,* 1922.
   Nos. 2 and 3 in one cover. March, 1927 ..... .25
4. Surface Catches of Marine Diatoms and Dinoflagellates made by U.S.S. "Pioneer" in Alaskan Waters in 1923, by Winfred Emory Allen. March, 1927 ..... .25
5. Studies on Marine Diatoms and Dinoflagellates Caught with the Kofoid Bucket in 1923, by Henry P. Dorman. March, 1927 ..... .25
6. Notes on Cestodes and Trematodes of Marine Fishes of Southern California, by George F. Sleggs. March, 1927 ..... .25
7. Quantitative Studies on Marine Diatoms and Dinoflagellates at Four Inshore Stations on the Coast of California in 1923, by Henry P. Dorman.
8. Pelagic Fish Eggs off La Jolla, California, by P. S. Barnhart.
   Nos. 7 and 8 in one cover. March, 1927 ..... .25
9. Marine Phytoplankton in the Region of La Jolla, California, during the Summer of 1924, by George F. Sleggs. March, 1927 ..... .30
10. Recent Foraminifera from Off the West Coast of America, by Joseph A. Cushman. September, 1927 ..... .90
11. Surface Catches of Marine Diatoms and Dinoflagellates off the Coast of Oregon by U.S.S. "Guide" in 1924, by Ralph Lewis. November, 1927 ..... .25
12. Surface Catches of Marine Diatoms and Dinoflagellates from Pacific High Seas in 1925 and 1926, by Winfred Emory Allen and Ralph Lewis. November, 1927 ..... .25
13. Catches of Marine Diatoms and Dinoflagellates Taken by Boat in Southern California Waters in 1926, by Winfred Emory Allen. January, 1928 ..... .55
14. The Periodic Occurrence of Copepoda in the Marine Plankton of Two Successive Years at La Jolla, California, by C. O. Esterly. March, 1928 ..... 1.25
15. Quantitative Studies on Inshore Marine Diatoms and Dinoflagellates Collected in Southern California in 1924, by Winfred Emory Allen. November, 1928 ..... .25

METHODS OF ESTIMATING THE SIGNIFICANCE OF DIFFERENCES IN OR PROBABILITIES OF FLUCTUATIONS DUE TO RANDOM SAMPLING

Numerical illustrations, formulae, and tables prepared especially for estimating probabilities when the usual "method of least squares" or "normal law of error" may not apply

BY

GEORGE FRANCIS McEWEN

Bulletin of the Scripps Institution of Oceanography
of the University of California
La Jolla, California
Technical Series, Volume 2, No. 1, pp. 1–137
Issued March 19, 1929

University of California Press
Berkeley, California

Cambridge University Press
London, England

CONTENTS

PAGE

Introduction 1

The significance of the difference between two proportions 5

Estimation of the significance of the difference between two averages by means of "group proportions" 6

Bayes's theorem on the probability of proportions 18

Practical applications of Bayes's theorem by means of table 6 18

Pearson's exact formula derived from Bayes's theorem, and certain approximations for facilitating its application 20

Tabulation of Pearson's exact formula derived from Bayes's theorem (table 6) 23

"Student's" method of estimating the significance of differences 108

Judging the reliability of results from small samples 108

Extension of "Student's" method to cases in which the number of observations is different in the two series 113

"Student's" probability integral and explanation of its tabulation in table 13 117

Values of the probability P computed from "Student's" probability integral (table 13) 118

The binomial series, a special case of Bayes's theorem, and its relation to various frequency laws 123

Approximate summation of terms in a binomial expansion when the exponent is large, by means of frequency laws 123

The normal probability integral and certain related functions (table 14) 128

Numerical illustrations of computations relative to the binomial expansion 132

Literature cited 135

Digitized by the Internet Archive
in 2025

https://archive.org/details/bulletin-of-the-scripps-institution-of-oceanography-ca_1929_2_1

METHODS OF ESTIMATING THE SIGNIFICANCE OF DIFFERENCES IN OR PROBABILITIES OF FLUCTUATIONS DUE TO RANDOM SAMPLING

Numerical illustrations, formulae, and tables prepared especially for estimating probabilities when the usual "method of least squares" or "normal law of error" may not apply

BY

GEORGE FRANCIS McEWEN

INTRODUCTION

There are many types of frequency distributions and the familiar "normal law" may fail under various conditions; in particular, if the departure from symmetry is too great or if the number of individuals in the sample is too small. There is an increasing regard for these limitations. Investigators in various fields requiring the application of statistical methods have frequently published statements implying that this law does not apply so generally as was formerly assumed. For example, in a recent paper concerned especially with the application of statistics in physical and engineering sciences, Shewhart (1924, pp. 43–87) has presented an excellent general discussion of the limitations of the normal law and has explained the use of more general frequency laws. Moreover, certain conditions essential for the validity of the normal law often seriously limit its usefulness. For example, Sumner (1909, p. 108) says:

> To the experimentalist it must often happen that the use of a large number of individuals, in any single series, is excluded by reason of the laboriousness of the methods employed. In such cases, we are told, no exact mathematical equivalent can be offered for the probability of a given result, even though the frequency distributions afford strong evidence on the subject. Of course the cumulative testimony of several independent series is of high value. In general it would seem that the experimentalist demands a somewhat different statistical technique from the student of variation *per se*, and it is to be regarded as unfortunate that the methods at our disposal have thus far been developed by the latter type of investigators, and with very little reference to the needs of the former. To the experimentalist who is studying the effects of artificial conditions, it is the *significance of differences*, and scarcely anything else in the whole field of statistical theory, that is likely to be of interest.

The great importance of appropriate methods of estimating the significance of differences, not only in experimental but also in "field" investigations where conditions cannot be controlled, becomes more evident as one becomes more familiar with researches in biology, sociology, economics, agriculture, meteorology, and other sciences. Especially within the past thirty years, some attention has been given to developing methods applicable to special cases not covered by the older ones. The present paper, another contribution to this field, is the result of cooperating with the late E. L. Michael, biologist of the Scripps Institution, on the problem of estimating the significance of differences in the abundance of marine plankton indicated by net hauls made under different environmental conditions. But the result of these efforts to develop and make available appropriate statistical methods has a much wider application than to the special field of marine ecology, which is responsible for starting the investigation. Moreover, it has been much influenced by attempts to help other biologists in their statistical problems.

The contents of this paper fall under the following six heads:

1. A method of obtaining the significance of the difference between two observed proportions, with numerical illustrations.
2. A method of estimating the significance of the difference between two averages, based upon the idea of direct "random sampling," and the significance of the difference between "group proportions" instead of the usual idea of the distribution of observations according to a selected frequency curve.
3. Pearson's formula derived from Bayes's theorem. Certain approximate results and the conditions under which they may be used. Methods of rapidly computing the sum of any number of terms in Pearson's series for any values of the numbers n and m of individuals in each set of observations. Table 6, computed from Pearson's series in order to facilitate the application of Bayes's theorem.
4. A frequency law developed by "Student" for the mean of a series of differences resulting from the "comparative method" or the method of "paired observations." The extension of this law to other cases. Use of the sum of products of probabilities of individual observations for estimating the significance of the differences between averages. Probability table 13 computed by "Student" to facilitate the use of his method.
5. Short methods of computing the sum of any number of terms of the expansion of the binomial $(p+q)^n$ for any value of n. Table 14 of the probability integral, and related functions used in various approximate formulae of the text.
6. Literature cited.

THE SIGNIFICANCE OF THE DIFFERENCE BETWEEN TWO PROPORTIONS

The following method is founded on Pearson's mathematical developments based upon Bayes's theorem. Pearson (1907, p. 366) assumes the truth of Bayes's theorem on the probability of proportions, and that the ultimate basis of practical statistics is not mathematical but observational. For derivations and explanations of Bayes's theorem see Woodward (1900, pp. 484–490), Timerding (1908), and Poincaré (1912, pp. 151–168). Pearson (1907) explains an exact mathematical formulation of Bayes's theorem developed for the purpose of applying the principle of the stability of statistical ratios and "the equal distribution of ignorance" to the fundamental problem: If in $n=p+q$ trials an "event" has been observed to occur p times and fail q times, and another trial of $m=r+s$ instances is made, what is the probability that the "event" will occur any given number r times and fail s times? For example, a sample of 30 of a population shows that 3 individuals have a certain disease, what is the probability that in a second sample of 20 individuals any given number, 0, 1, 2, 3, 4, etc., will have the disease? What is the probability that 2 or less in the second sample will have it? What is the probability that 5 or more will have it? These probabilities can be computed from Pearson's (1907) formula, which is reproduced on page 20 of this paper, or they can be read directly from table 6, pages 23 to 107 which was computed from his formula. (An important paper on computations of integrals involved in Bayes's theorem has been published by Wishart (1927) since the preparation of this paper.) The values of n and m are entered in the upper left-hand corner of each page, the first line contains a series of values of p ranging from 0 to $n/2$ for even values of n and to $(n\text{-}1)/2$ for odd values. The values of r to be used with these values of p are entered in the left-hand column and range from 0 at the top to m at the bottom. Values of p greater than $n/2$ or $(n\text{-}1)/2$ are entered on the bottom line and increase from right to left. The values of r to be used with these values of p are entered in the right-hand column and range from 0 at the bottom to m at the top. The probability of r successes in a second sample m after drawing p successes in a first sample n is entered in the line corresponding to the value of r and is the left-hand entry in the column corresponding to the value of p. The right-hand column corresponding to any value of p contains the sum of the probabilities from the bottom up to the maximum value, and from the top down to this maximum value.[1]

[1] Since in practical applications the sum of probabilities is required rather than the individual probability of a definite proportion, only these sums are printed for values of n exceeding 10.

To illustrate the use of the table, the questions relative to the proportionate number in a population having a certain disease will now be considered. Since $n=30$, $m=20$, and $p=3$, the probabilities required are found on page 85. The probability that none will have the disease in the second sample is 0.1259. The probabilities that 1, 2, 3, 4, etc., will have it are respectively 0.2144, 0.2214, 0.1771, 0.1197, etc. The probability that 2 or less will have it in the second sample is 0.5617, the sum of the probabilities corresponding to 0, 1, and 2. This sum is entered in the column under the value 3 of p. The probability that 5 or more will have the disease is 0.1415. In case the pair of values of n and m is not in the table, a sufficiently close approximation can be readily computed by simple interpolation (see pages 18 to 19 for illustrative problems). Also, however large m and n may be, it is practicable to approximate closely to the sum of any number of terms of Pearson's series by the use of special methods described on pages 21 to 22.

ESTIMATION OF THE SIGNIFICANCE OF THE DIFFERENCE BETWEEN TWO AVERAGES BY MEANS OF "GROUP PROPORTIONS"

Although this method was developed especially for cases in which the number of observations is small and the frequency distribution is not restricted to the normal type, there is no limit to the number of observations to which it applies.

One of the fundamental problems in dealing with the numerical data resulting from observations or measurements in the field or laboratory is this: Determine how one measured quantity called the *dependent variable* is related to each of a number of other magnitudes called *independent variables*, for example environmental factors. This statistical problem can be attacked in various ways, the particular method to use in any given case depending upon the data. It is the problem of multiple correlation or finding the functional relation of one variable to each of a number of correlated variables. The special case of multiple linear correlation was developed first and is explained in various texts and papers. According to Ezekiel (1924, p. 431), "Little work has yet been done, however, on the problem of simultaneously determining the curvilinear relation of two or more independent variables." See also McEwen and Michael (1919) for an earlier contribution to the solution of this problem.

Relations indicated by any of these methods, applied to a limited number of observations constituting a "sample" of the whole population or "universe" under consideration, are subject to errors of measurement and the fluctuations due to random sampling. Therefore it is necessary

to determine the reliability of the indicated relations. An estimate of the reliability of the results of any quantitative investigation may be based upon the reasonableness of the results, the consistency of results, the simplicity and definiteness of the relations, and, finally, by the probability of obtaining the differences between certain averages as the result of a chance combination of circumstances. As stated by McEwen and Michael (1919, p. 131):

> Experience proves that after all practicable efforts are made toward controlling or correcting variations attributable to the independent variables some deviation between computed and observed values of the dependent variable always remains. Although the magnitude of these deviations is an index of the accuracy with which the empirical relations describe the data at hand, one needs an estimate of the reliability with which these relations describe the whole "universe" of which those data are a sample.

Again, suppose corrections based upon the indicated relations are applied to each value of the dependent variable in any group to reduce it to the value it would have under a set of constant values of the independent variables. If the indicated relations were exact and all relevant factors or independent variables were used, constant values of the dependent variables would result. In practice the application of such corrections reduces but does not completely eliminate the variability of the series. Thus arises the problem of calculating the probability that the difference between two averages corresponding to different conditions (for example different values of one independent variable) might have been due to mere chance or accident (*i.e.*, that it is the result of a multitude of independent causes having no relation to the conditions under consideration).

Estimates of the probability that a difference is due to chance are usually based upon the method of least squares from which the conception "probable error" was derived. The probable error is a value such that one-half of the number of errors exceed it and one-half are less. The probability of obtaining an error equal to or greater than any given value can be read from tables of the normal probability integral, which is a known function of the ratio of the given error to the probable error. Thus the "probable error method" is simply a special way of expressing indirectly the probability that an error will occur equal to or greater than a given value. There are certain limitations, however, in the use of the probable error and normal curve of frequency upon which it depends, which are often disregarded in practice. See, for example, Shewhart (1924, pp. 43–87). Partly because of the comparative ease with which the routine calculations can be made, and partly because no other methods have become generally known, there is a tendency to use this familiar method in cases to which it does not apply even approximately.

"Student" (1909) explained a method he had devised for finding the probability that the mean of a small sample, drawn at random from a population following the normal law, will not exceed (algebraically) the mean of that population by more than z times the standard deviation of the sample. His method requires individual differences between pairs of corresponding observations in each of the two series, and the computations must be made with reference to this series of differences. It does not apply directly to the case in which the average of one series is to be compared with the average of another series which may not have the same number of observations. It applies directly to the differences between pairs of observations regarded as a series of quantities. The theory of his method demands such a knowledge of mathematics that comparatively few investigators not professional statisticians would take the time to follow his reasoning. However, his method is a notable contribution to practical statistics; its validity has been confirmed by other investigators, Fisher (1914–15), Newbold (1923), Pearson (1914–15), Soper (1913), Soper *et al.* (1915–17), and it is being more widely used. An excellent popular explanation of "Student's" method is presented by Shewhart (1926, pp. 308–319). His method and tables to facilitate applications are presented on pages 108 to 122. Ways of extending his method to other cases are also explained.

It is difficult to devise any method that will apply under the varied conditions met with in practice. Especially in the case of a small number of observations, it may be that only rather crude estimates of the significance of the difference between averages is possible. But with a sufficiently large number of observations to insure a reasonably accurate knowledge of the type of frequency distribution, it should be possible to obtain an accurate estimate of the significance of a difference. The method now to be explained was devised by the writer in attempting to deal with data in marine ecology. It is partly empirical and has been applied in an experimental way to various kinds of data during a period of several years and the basic idea was presented at the St. Louis meeting of the American Mathematical Society in 1919 (McEwen, 1920). High precision is not claimed for the method, but it provides reasonably safe estimates of the significance of differences.

The method can be explained best by working out numerical cases which furnish concrete illustrations of its derivation and application. A tow net is hauled vertically through a given distance, for example, from 200 fathoms to 150 fathoms, and closed before being drawn up to the surface, thus obtaining a sample of the plankton occurring in that depth interval. The number of each species found in a single haul is called the abundance of that species, and the length of the net haul determines a volume used for reference which may be reduced to another standard if desired. Actually the net filters a rather variable fraction

of the volume of water that would pass through the net rim if there were no obstruction. Therefore the number of organisms counted in a haul is a somewhat variable fraction of the number present in the column of water through which the net is drawn. The count of the organisms in a given haul is subject to many influences. Some of these are measured, but most of them are not. Also there are errors in the method of collecting and counting. Accordingly the count from a single haul has but little significance.

Suppose, for illustration, that the object is to find out whether there is a difference between the number of organisms per unit volume in the interval from 200 to 100 fathoms and the interval from 300 to 200 fathoms. A number of hauls of definite length would be made in each of the two intervals under as nearly identical conditions with respect to other factors as practicable. A comparison of the average abundance in each interval would indicate the difference. The greater the number of hauls made in one depth interval the more closely will the average of the hauls (the average abundance) approach some constant fraction of the actual abundance in that interval. Assume this fraction to be practically the same for the upper interval as for the lower one. Then the difference indicated by repeated hauling tends more and more to be in the proper direction, and the probability that the indicated difference is due to chance decreases. The following tabulation of the abundance of a marine worm, *Sagitta lyra*, copied from Michael (1911, pp. 93–95) will be used first to illustrate a method of estimating the probability that the observed difference between two average values of the abundance was due to chance. The net was hauled through a constant distance, 50 fathoms, that is, the haul interval was constant (a haul distance of 100 fathoms would have been better for this purpose). The first series of hauls (1) was made within the interval 200 to 100 fathoms, the second series (2) was made within the interval 300 to 200 fathoms. All of the hauls were made during the daytime (6 A.M. to 6 P.M.).

What is the probability of obtaining an average as great as 4.37 or greater in a series of 11 hauls when the first series of 12 hauls averaged 3.09, assuming the difference in the two averages to be due to chance fluctuations of two samples taken from the same "population"? First arrange the entries of each series in the order of their magnitude, as illustrated by table 1. Next, find by trial such a value of a single haul (entry in the series) that the average of those in the first series, equal to or greater than this "separating value," is not greater than the corresponding average of those in the second series, equal to or greater than the same "separating value." Also the average of the remaining (smaller values) in the first series should not be greater than the corresponding lower average in the second series. Thus two groups of entries, an upper and a lower one, are found in each series defined by

a separating value found by trial. In the series having the greater average, the mean of the upper group is not less than the mean of the upper group of the series having the smaller average, and the mean of the lower group of the first series is not less than the mean of the lower group of the second series having the smaller average.

Table 1

Abundance of Sagitta lyra from 50-fathom hauls, arranged in the order of magnitude

I		II
	Haul interval in fathoms	
200–100		300–200
11		11
10		9
5		6
3		6
3		5
3		5
		3
1		2
1		
0		1
0		0
0		0
0		
12 | 37		11 | 48
3.09	Average abundance	4.37

The best separating value in this case is 2. In the first series there are 6 entries $\overline{>}$ 2, and their mean is 5.8. In the second series there are 8 entries $\overline{>}$ 2, and their mean is 5.9. There are 6 entries in the lower group of the first series, and 3 in the lower group of the second series. The corresponding averages are 0.3 and 0.3. Thus the conditions are fulfilled.

Each series, after the entries are arranged in their order of magnitude, may be regarded as a sample drawn at random from a "population" or series also arranged in the order of magnitude but having an indefinitely great number of entries, the difference between the average of the sample and that of the population being due to chance or the errors of random sampling. Assume that the difference between the averages of two samples is due entirely to the difference between the proportion of entries above the separating value. This would be strictly true if each entry had only one of two values, namely, the average of the upper group and the average of the lower group. Thus the probability of obtaining a difference as great as the given one or greater in the same direction reduces to finding the probability of obtaining a difference in the proportion of values between the two groups as great as the observed one or greater.

The illustrative example is thus reduced to the question: What is the probability of obtaining 8 or more hauls (or entries) out of 11 that equal or exceed 2, when in the first sample of 12 there were only 6 entries equal to or greater than 2. Referring to table 6, page 29, where $n=12$ and $m=11$, the value 0.18 is found in the column under $p=6$, and in line with $r=8$. Therefore the probability is 0.18 of obtaining a difference as great as the observed one, or greater, as a result of chance. It is not unlikely that an increased number of hauls would show a difference in the opposite direction. It is a weak case, owing to the high variability and small number of hauls.

Using the group means of the first series and the numbers in each group of the second series, the average of the second series should be computed as a check. In order that the estimate of the probability may be on the safe side, the computed average should not exceed the average of the second series, if the average of the second series exceeds the average of the first, and should not be less than the average of the second series if the average of the second is less than that of the first. In the above example the computed value of the second average is

$$\frac{8\times 5.8+3\times .30}{11}=4.30$$

which is less than the observed average 4.37. Since table 6 was computed for n equal to or greater than m, the series having the largest number of entries is used as the first series.

It is not always possible to find a "separating value" such that the corresponding groups will have averages that meet the requirements. That is, it may not be possible to obtain in this way a sufficiently close approximation to equality of the two upper group averages and the two lower group averages. For example (Esterly 1912, pp. 272–277), vertical hauls of the constant length of 10 fathoms made during the night (6 P.M. to 6 A.M.) yielded the following counts of *Calanus finmarchicus*, a species of Copepod, listed in table 2.

In the first series there are 6 entries equal to or greater than 6, and 10 entries less than 6; the average of the upper group is 13.0, that of the lower is 1.6. The same separating value, 6 in the second series, defines an upper group of 3 entries and a lower of 12; the corresponding group means are 10.3 and 1.8. In this case the average of the first series of 16 hauls is the larger, accordingly the upper and lower group means in the first series should not be less, respectively, than the corresponding ones in the second. While the upper group mean 13.0 exceeds 10.3, that of the second series, by a rather large amount, 2.7, the lower average, 1.6, is a little less than 1.8, the lower group mean of the second series. The computed average of the second series is $\frac{3\times 13+12\times 1.6}{15}$

=3.88 which exceeds the observed value of 3.54. Thus the probability estimated from this set of numbers of entries per group should be too large, that is, the error in estimating the probability should be on the safe side. If the difference between the averages of either the upper groups or the lower ones, corresponding to a given separating value, is in the wrong direction it may be compensated by a sufficiently large difference in the right direction between the lower group means or the upper ones, as in the above example. In general these differences should

Table 2

Abundance of Calanus finmarchicus in 10-fathom vertical hauls, arranged in the order of magnitude

I		II
Depth interval in fathoms		
50–40		40–30
26		13
16		10
12		8
10		5
8		5
6		3
4		2
4		2
3		1
2		1
1		1
1		1
1		1
0		0
0		0
0		
16 | 94		15 | 53
5.88	Average	3.54

be as small as possible, and the averages of the second series should be computed from the group means of the first series and the number of entries per group in the second series. The average thus computed should exceed the observed one, if the latter is less than the average of the first series, and should be less than the observed one if this exceeds the average of the first series.

In case no separating value can be found that meets the conditions with requisite accuracy, the same general method can be applied to either the upper groups, the lower groups, or to both groups. That is, select a separating value for the two upper groups and another for the two lower groups. The average of one of the upper groups should agree approximately with the value computed from the averages of the subgroups of the other, and the number of entries in the subgroups of the first. The same procedure applies to the two lower groups, and finally

the average of one series, say the second, should be computed from the four group averages of the first and the corresponding numbers of entries in each of the four groups of the second series. The average thus computed should not be less than that of the second series if the average of the second is less than that of the first, and should not be greater than the second if the second exceeds the first. After determining the separating values and corresponding numbers of entries per group, find the probability p_1 for the two upper groups, p_2 for the two lower groups and P' with reference to the two series in the usual way. The desired probability, P, will be the product $p_1 \times p_2 \times P' \times C = P$ where the factor C appears in order to reduce the product Cp_1p_2 to the value 1 when the two upper averages are equal and the two lower ones are equal, which corresponds to the first case. In this case P equals P', and the values p_1 and p_2 would each equal about $\frac{1}{2}$. Therefore C must be approximately 4. This refinement of the method will now be illustrated by its application to the two series in table 2.

First the separating value 5 will be used in order that none of the four groups may have too small a number of entries to be profitably used in estimating the probabilities p_1 and p_2. In comparing the two upper groups the best separating value is 12, and for the two lower groups it is 3. The upper group of the first series contains 6 entries whose mean, 13, is much greater than 8.2, the mean of the 5 entries in the upper group of the second series. The lower group of the first series contains 10 entries whose mean is 1.6 which exceeds 1.2, the mean of the lower group of the second series. The probability P' of obtaining 5 or less out of 15 after obtaining 6 out of 16 is 0.464 which is too large an estimate of the probability of obtaining an average equal to or less than 3.54 after obtaining 5.88 in the first trial. The groups and subgroups used for computing P' and p_1 and p_2 in order to obtain a corrected estimate of the probability together with a schedule of computation are presented in table 3.

The probability of getting a difference, due to chance, as great as 5.88–3.54, or greater, in the indicated direction is therefore $P = 4 \times .247 \times .185 \times .464 = 0.085$. The probability found by the simplest method, page 9, is 0.183, which is a high estimate owing to the impossibility of selecting a separating value that results in a sufficiently close approximation to equality between the two upper and the two lower groups.

Another way of defining the upper and lower groups, in case a single separating value does not give satisfactory results when used in the first or most simple way, will now be illustrated by the same data. Find the mean of the first 2 entries, the first 3, etc., to the bottom in each series. Since the average of the first series exceeds that of the second, in this case, select any two upper group means, one from each series, such that the group mean of the first is not less than that of the

Table 3

Computation of the significance of a difference by means of group and subgroup proportions illustrated by data in table 2.

I		II	
26		13	13÷1=13
16	54÷3=18	10	
12		8	28÷4=7
10		5	
8	24÷3=8	5	
6		3	3÷1=3
4		2	
4	11÷3=3.7	2	
3		1	
2		1	
1		1	9÷9=1
1		1	
1		1	
0	5÷7=.7	0	
0		0	
0			
16 | 94		15 | 53	
5.88	Average	3.54	

Group means in series II computed from subgroup means in series I and numbers of entries per subgroup in series II

$(1\times18+4\times8)\div5=10>8.2$
$(1\times3.7+9\times.7)\div10=1.0<1.2$
$(5\times10+10\times1)\div15=4.0>3.54$

Computation of probabilities

	n	$\bar{p}$	m	r	Probability of r or less
Upper groups	6	3	5	1	$P_1=0.247$
Lower groups	10	3	10	1	$P_2=0.185$
Series I and II	16	6	15	5	$P=0.464$

second. For example, the mean of the first 7 entries of series I is 11.7, and the mean of the first two entries of series II is 11.5, which is a little less. The lower group of series I contains 9 entries whose mean is 1.3, while the lower group of series II contains 13 entries whose mean is 2.3. But the same relation should hold between these averages as between those of the two upper groups, in order that the probability of obtaining the difference between the proportions of the number of entries in the upper and lower groups may hold for the averages of the series. An adjustment or correction of the proportion in the second series can be made as follows. Sum series II up from the bottom, find the successive means, select the largest of these that is less than 1.3. This lower group mean is 1.2, the mean of the last 10 entries. Thus there is an upper group of 2 entries and a lower group of 10 entries

leaving a gap of 3 entries to be apportioned to the two groups. In order not to increase the difference in proportion, which would result in an overestimate of the significance of the difference, divide the number of entries in this gap in the same ratio as the number in the upper and lower groups of series I. Thus $(7/16)\times 3=1.3$ and $(9/16)\times 3=1.7$. Adding 1.3 to 2, and 1.7 to 10 the corrected or adjusted numbers in the upper and lower groups are 3.3 and 11.7 whose sum 15 is the total number of entries in series II. Next compute as usual the average of the second series from the group means of the first and the corrected numbers of entries in the groups of the second series thus, $(3.3\times 11.7+11.7\times 1.3)\div 15=3.58$. This computed value is slightly greater than the observed one, 3.54, and accordingly this division into groups may be regarded as satisfactory. The probability of obtaining 3.3 or less out of 15 in a second sample, after obtaining 7 out of 16 in the first trial, is found by simple interpolation in table 6 to be .139.

The adjustment can also be applied to the first series. Sum the first series from the bottom up, compute the successive averages, and find the smallest of these that exceeds 2.3, the average of a lower group of series II. This is 2.5, the mean of the lower 12 entries of series I. But the upper group contains 7 entries, thus the groups overlap, there being an excess of 3. Therefore, divide this excess in proportion to the number of entries in the upper and lower groups of series II, *subtract* the value proportional to the number in the *upper* group of series II from the number in the *lower* group of series I, and *vice versa*. Thus $(2/15)\times 3=.4$, $(13/15)\times 3=2.6$, $7-2.6=4.4$, and $12-.4=11.6$. The average of the second series computed from groups and numbers per group in the usual way is $(2\times 11.7+13\times 2.5)=3.72$ which exceeds the observed value 3.54 by an amount somewhat larger than that found above. The corresponding probability is .204.

Again, starting with the lower groups instead of the upper ones, the same general procedure can be followed. Table 4 indicates briefly two computations made in this way.

The first line of table 4 contains group means and numbers per group based upon approximate equality of the lower groups. The second line contains the new upper group mean and numbers per group in series II. The third line contains the adjusted numbers per group corresponding to the new upper group means.

In the next three lines are presented the results obtained by adjusting the numbers per group corresponding to new upper group means in series I. The various estimates of the probability from all of the methods are 0.085, 0.139, 0.183, 0.199, and 0.204. A precise estimate of the probability is difficult owing to the high variability and small number in the samples, and any one of the estimates may be used for practical purposes. Of course chances of 1 or 2 in 10 indicate that the

Table 4

Computation of probabilities for series I and II of table 2 by the method of adjusting the numbers per group in one series based upon a division into two groups of the entries in the other series

Series I				Series II			
Upper group		Lower group		Upper group		Lower group	
Mean	Number of entries	Mean	Number of entries	Mean	Number of entries	Mean	Number of entries
11.7	7	1.3	9	8.2	5	1.2	10
11.7	7	1.3	9	11.5	2	1.2	10
11.7	7	1.3	9	11.5	3.3	1.2	11.7
11.7	7	1.3	9	8.2	5	1.2	10
8.3	11	1.3	9	8.2	5	1.2	10
8.3	8.3	1.3	7.7	8.2	5	1.2	10

Computation of the average of series (2)	Probability
$(3.3\times11.7+11.7\times1.3)\div15=3.58$	.139
$(5\times8.3+10\times1.3)\div15=3.64$	.199

difference may well be accidental. It is not unlikely that future collections will reveal a difference in the opposite direction.

Another method of sampling plankton is to filter through a net a measured amount of water collected in a bucket. This "measured volume" method is especially adapted to microplankton whose number per unit volume in the sea is, in general, very much greater than the number of larger forms. The method just explained of estimating the significance of differences can be applied to such data. However, according to Michael (1921, pp. 564–565) there are several reasons in favor of using the geometric mean instead of the arithmetic mean in all quantitative investigations of the abundance of plankton. Reasons given by Wells (1921, pp. 272–273) for using logarithms of counts in bacterial researches also apply to plankton researches. Accordingly in such investigations logarithms of the abundance should be used instead of the numbers of organisms. The use of logarithms has additional advantages, especially in dealing with the large numbers so characteristic of microplankton hauls. Values of the abundance may be adjusted by adding 1 to each thus avoiding a logarithm of zero.

Using the "measured volume" method, the total number of diatoms and dinoflagellates per liter, caught in a series of surface hauls ten miles west of La Jolla, from May 27 to July 14, is presented by Allen (1921, p. 75). The logarithms of those numbers are entered in table 5, divided into three series with reference to time and arranged in the order of magnitude in each series.

TABLE 5

Logarithms of numbers per liter of microplankton in samples obtained by filtering twenty liters of water through a number 25 net. The entries are arranged in the order of magnitude in each of the three time intervals

I	II	III
May 27–June 14	June 15–July 6	July 7–July 14
4.3909	5.1584	3.3711
3.1553	5.0492	3.3404
2.4166	4.9930	3.2504
2.3927	4.8669	3.1335
2.2900	4.8669	2.8987
1.7160	4.6274	2.8773
1.7160	4.3729	2.3838
1.5185	4.3636	
1.4150	3.1673	7 | 21.2552
1.1139	3.1335	3.036
1.1139	3.0453	
0		
0	11 | 47.6444	
0	4.332	
14 | 23.2388		
1.660		

These averages indicate a marked increase in abundance up to the central time interval, followed by a decline in the last interval. Thus the question arises: What is the probability of getting indications of a "pulse" or maximum plankton abundance within the central interval as a result of chance? More precisely: What is the probability that there is a period of maximum abundance occurring later than the middle of the first interval and earlier than the middle of the third or last interval? Thus the "optimum" may be defined by the range of the factor (time in this case), within which observations indicate a maximum abundance, and a corresponding probability. In general the optimum value of a factor is not a definite magnitude. It is an interval defined by an upper and a lower limit and the corresponding probability that the indications resulted from chance.

The schedule of computation of the probabilities follows:

Series	Upper group		Lower group		Computed average	Observed average	Probability
	Number	Mean	Number	Mean			
(1)	1	4.39	13	1.45			
(2)	10	4.46	1	3.04	4.12	4.33	0.0001–
(2)	10	4.46	1	3.04			
(3)	1	3.37	6	2.98	3.25	3.04	0.0008

Let P_1 be the probability of getting, between series I and II, a difference as great as the observed difference or greater, and let P_2 be the probability corresponding to series II and III. Then the probability that the optimum lies between the middle of the first interval and the middle of the second is $(1-P_1)\ (1-P_2)=1-(P_1+P_2-P_1\ P_2)$. Subtracting this value from 1 gives $(P_1+P_2-P_1\ P_2)$, or the probability that the indications resulted from chance. In the above example the probability is therefore .0009 that the result is due to chance, or the odds are 1111 to 1 against getting an indication of an optimum within the given limits as a result of chance.

BAYES'S THEOREM ON THE PROBABILITY OF PROPORTIONS

Practical Applications of Bayes's Theorem by Means of Table 6

One of the fundamental questions in practical statistics is, according to Pearson (1920–21):

> An "event" has occurred p times out of $p+q=n$ trials, where we have no *a priori* knowledge of the frequency of the event in the total population of occurrences. What is the probability P_r of its occurring r times in a further $r+s=m$ trials? It is on the stability of this ratio and its limits according to the size of the first sample that the whole doctrine of statistics, which is the theory of sampling, depends.

Discussion of the basis of Bayes's theorem and demonstrations of its validity in practical statistics are presented by Pearson (1920–21, pp. 1–16; 300–301) and Pearson (1924, pp. 190–193).

Table 6 was computed from Pearson's (1907, pp. 365–378) mathematical formulation of this problem of the probability of proportions based upon Bayes's theorem. The values of n range from 5 to 40, and the values of m corresponding to each value of n range from 5 to n. Values of p ranging from 0 to $n\div 2$, (if n is even) and $(n-1)\div 2$, (if n is odd) are entered on the first line, and increase from left to right. On the last line are entered values of p equal to (n minus the value in first line), increasing from right to left. Values of r range from 0 to m and increase from the top downward in the left-hand column. These values of r are to be used with the values of p in the top line. In the right-hand column the values of r increase from 0 at the bottom to m at the top and are to be used with values of p in the last line. The probability P_r is the left-hand entry in line with r and p; r in the left-hand column is to be used with p in the top line and vice versa. The probabilities are

summed from the top down to the maximum probability, which corresponds to the model value of the proportion, and from the bottom up. These sums[2] are right hand-entries in line with r and p.

For example, if $n=29$, $p=3$, and $m=15$, the probability P_r for $r=1$ is .2692, if $r=7$, $P_r=.0063$. The probability for $r\leqq 7$ is the sum of the probabilities for $r=7$, 8, 9, etc., to m, and is the right-hand entry .0091 under $p=3$, in line with $r=7$. This value .0091 is also the probability of getting 8 or less when in the first sample there were 26 out of 29. In general, because of the symmetry of the formula (page 20), the probability for n, p, m, and r is the same as for n, $(n-p=q)$, m, and $(m-r=s)$, which made possible the condensed arrangement of the tables. Tables computed by Greenwood (1913, pp. 69–90) and reproduced in Pearson (1914, pp. 89–97) contain a greater range of values of m and n, but the intervals are much wider, thus interpolation between widely separated values for both m and n is usually necessary. Also his tables do not contain the sums of probabilities.

In case the numbers are within the tabular range but are not in the table, the probabilities can be obtained readily by simple interpolation. For example, let $n=37$, $p=27$, $m=23$, and $r=11$. Interpolate for $m=23$ where $n=35$ and also where $n=40$, then interpolate between these interpolated results for $n=37$ as shown by the following schedule of computations.

n	m	p	r	Probability	
				From table	Interpolated
35	20	27	11	0.0372	
35	25	27	11	0.0044	
35	23	27	11		0.0175
40	20	27	11	0.0959	
40	25	27	11	0.0230	
40	23	27	11		0.0522
37	23	27	11		0.0314

The same procedure can be applied to the sums of probabilities.

[2] Since in practical applications the sum of probabilities is required, rather than the individual probability of a definite proportion, only these sums are printed for values of n exceeding 10.

Pearson's Exact Formula Derived from Bayes's Theorem, and Certain Approximations for Facilitating Its Application

The exact formula for computing the probability in terms of n, p, m, and r is, (Pearson 1907, p. 367):

$$P_r = \frac{m!}{r!\ s!}\ \frac{\int_0^1 x^{p+r}\,(1-x)^{q+s}\,dx}{\int_0^1 x^{p}\,(1-x)^{q}\,dx}$$

which Pearson finds to be equivalent to the following series:

$$\begin{aligned} r = \quad & 0, \qquad 1, \qquad\qquad 2, \\ P = C_0\{1 &+ \frac{(p+1)m}{1(1+m)} + \frac{m(m-1)(p+1)(p+2)}{1\cdot 2(q+m)(q+m-1)} \\ & \qquad\qquad 3 \cdot\cdot\cdot \\ &+ \frac{m(m-1)(m-2)(p+1)(p+2)(p+3)}{1\cdot 2\cdot 3(q+m)(q+m-1)(q+m-2)} + \cdot\cdot\cdot \\ & \qquad\qquad r \cdot\cdot\cdot \\ &+ \frac{m(m-1)(m-2)\cdot\cdot\cdot(m-r+1)(p+1)(p+2)\cdot\cdot\cdot(p+r)}{r!\ (q+m)(q+m-1)(q+m-2)\cdot\cdot\cdot(q+m-r+1)} + \cdot\cdot\cdot \\ & \qquad\qquad m \\ &+ \frac{(p+1)(p+2)(p+3)\cdot\cdot\cdot(p+m)}{(q+m)(q+m-1)(q+m-2)\cdot\cdot\cdot(q+1)}\} \end{aligned}$$

where

$$C_0 = \frac{(q+m)!\ (n+1)!}{q!\ (n+m+1)!}$$

The general, or $(r+1)$ term is also equal to

$$\frac{m!\ (p+r)!\ (q+m-r)!}{(m-r)!\ r!\ p!\ (q+m)!}$$

and the last term is

$$\frac{(p+m)!\ q!}{p!\ (q+m)!}$$

The modal or most probable value of r is the integer nearest to $p\,\frac{m+1}{n} = \mathfrak{p}\,(m+1)$.

The mean, measured from the first term, $(r=0)$ is

$$\frac{m(p+1)}{n+2} = m\mathfrak{p} + \frac{m}{(n+2)}(\mathfrak{q}-\mathfrak{p}) = M$$

p/n and q/n are denoted by $\mathbf{p}$ and $\mathbf{q}$, respectively. The square of the standard deviation equals

$$\sigma^2 = M\left(\mathbf{q} - \frac{\mathbf{q}-\mathbf{p}}{n+2}\right)\left(1+\frac{m-1}{m+3}\right)$$

which approaches the simpler approximate expression $m\mathbf{pq}\left(1+\frac{m}{n}\right)$ as n increases and the difference $(q-p)$ decreases. The corresponding value of the standard deviation

$$\sigma = m\sqrt{\mathbf{pq}\ (1/m+1/n)}$$

is usually derived from the method of least squares. The third moment about the mean is

$$\mu_3 = \frac{m(p+1)(q+1)(q-p)}{(n+2)^3}\left(1+\frac{m-1}{n+3}\right)\left(1+\frac{2(m-1)}{n+4}\right)$$

A useful method of approximating closely to the sum $S_{r+1}(p)$ of the first $(r+1)$ terms of the series for P_r can be derived from Camp's (1924) results developed for the binomial series (see pages 125 to 126 of this paper). The $(r+1)$ term of the series equals

$$w(r) = \frac{m!\ (p+r)!\ (q+m-r)!}{(m-r)!\ r!\ p!\ (q+m)!}$$

and the sum equals

$$S_{r+1}(p) = w(r)\left\{\frac{\sigma\left[1-(\tfrac{1}{2}+\int_o^{x_1} e^{-\frac{x^2}{2}}\,dx\right]}{e^{-\frac{x_1^2}{2}}}+\tfrac{1}{2}+E'\right\}$$

which can be evaluated by means of the following defining equations and table 14.

$$x_1 = -1.0730\frac{\log_{10}(QR)}{\sqrt{\log_{10}(R)}}$$

$$\sigma = \frac{1}{2.14597\sqrt{\log_{10}(R)}}$$

$$Q = \frac{r(q+m-r+1)}{(p+r)(m-r+1)}$$

$$R = \sqrt{\frac{r(q+m-r+1)\ (m-r+2)\ (p+r-1)}{(m-r+1)\ (p+r)\ (r-1)\ (q+m-r+2)}}$$

and

$$E' = \frac{x_1}{12\sigma^2}\left[1+\frac{1}{60\sigma^2}(3-x_1^2)+\frac{1}{25200\sigma^2}(15-10x_1^2+x_1^4)\right]$$

This is a correction to which the first term is often a sufficiently close approximation.

The value of the expression

$$\frac{\left[1-(\tfrac{1}{2}+\int_o^{x_1} e^{-\frac{x^2}{2}}\,dx)\right]}{e^{-\frac{x_1^2}{2}}}=\frac{\int_{x_1}^{\infty} e^{-\frac{t^2}{2}}\,dt}{e^{-\frac{x_1^2}{2}}}$$

is entered in column (8) of table 14, in line with the value of x_1 in column (1).

To find the sum $S_{s+1}(p)$ of the last $(s+1)$ terms proceed in the same way, but use $(m-r)=s$ for r, and $(n-p)=q$ for p. Neither sum should include the maximum probability which corresponds to the modal value of r. That is, in finding the sum of the first $(r+1)$ terms r should be less than $\frac{p(m+1)}{n}$, and in finding the sum of the last $(s+1)$ terms r should exceed $\frac{p(m+1)}{n}$, or s should be less than $\left[m-\frac{p(m+1)}{n}\right]$.

A simple method derived by Camp (1924) for approximating to the sum of the terms of the binomial series can be applied to the above series. This method is but slightly influenced in accuracy by asymmetry, and is especially adapted to the "tails" of the frequency curve. That is, it should be used to find the sum of all the terms from either end toward the mode, but not close to the mode. Begin with any term $w(r)$, compute directly any number of terms $w(r-1)$, $w(r-2)$, $w(r-3)$, $w(r-4)$ etc., in succession where $w(r)$ is the greatest term among the group to be summed, and denote the sum of the first $(r+1)$ terms by $S_{r+1}(p)$. Then

$$w(r)+w(r-1)+w(r-2)+w(r-3)+\cdots+w(r-i)+\frac{w(r-i-1)}{1-\frac{w(r-i-2)}{w(r-i-1)}}>S_{r+1}(p)$$

and

$$w(r)+w(r-1)+w(r-2)+w(r-3)+\cdots+w(r-i-1)+w(r-i-2)<S_{r+1}(p)$$

The mean of these two extreme values approximates more closely to the sum as the number of terms used increases.

$$\int_0$$

Tabulation of Pearson's Exact Formula Derived from Bayes's Theorem (Table 6)

Table 6

The probability of r successes in a second sample m after drawing p successes in a first sample n, and the summation of these probabilities from the ends (smallest values) up to the maximum

(A detailed explanation of the table and its use is presented on pages 5–6 and 18–22)

n=5, m=5

r \ p	0		1		2		
0	.5454	.5454	.2727	.2727	.1212	.1212	5
1	.2727	.4545	.3030	.5757	.2273	.3485	4
2	.1212	.1818	.2773	.4243	.2597	.6082	3
3	.0454	.0606	.1299	.1970	.2164	.3917	2
4	.0130	.0152	.0541	.0671	.1299	.1753	1
5	.0022	.0022	.0130	.0130	.0454	.0454	0
	5		4		3		p \ r

n=6, m=5

r \ p	0		1		2		3		
0	.5833	.5833	.3182	.3182	.1591	.1591	.0707	.0707	5
1	.2651	.4165	.3182	.6817	.2651	.4242	.1767	.2474	4
2	.1060	.1514	.2121	.3635	.2651	.5757	.2525	.5000	3
3	.0353	.0454	.1060	.1514	.1894	.3106	.2525	.5000	2
4	.0088	.0101	.0379	.0454	.0947	.1212	.1767	.2474	1
5	.0013	.0013	.0075	.0075	.0265	.0265	.0707	.0707	0
	6		5		4		3		p \ r

n=6, m=6

r \ p	0		1		2		3		
0	.5384	.5384	.2692	.2692	.1224	.1224	.0489	.0489	6
1	.2692	.4615	.2937	.5629	.2203	.3427	.1305	.1794	5
2	.1224	.1923	.2203	.4370	.2447	.5874	.2039	.3833	4
3	.0489	.0699	.1305	.2167	.2039	.4125	.2331	.6165	3
4	.0163	.0210	.0612	.0862	.1311	.2086	.2039	.3833	2
5	.0041	.0047	.0210	.0250	.0612	.0775	.1305	.1794	1
6	.0006	.0006	.0040	.0040	.0163	.0163	.0489	.0489	0
	6		5		4		3		p \ r

n=7, m=5

r \ p	0		1		2		3		
0	.6154	.6154	.3589	.3589	.1958	.1958	.0979	.0979	5
1	.2564	.3845	.3263	.6409	.2937	.4895	.2175	.3154	4
2	.0932	.1281	.1958	.3146	.2611	.5104	.2719	.5873	3
3	.0279	.0349	.0870	.1188	.1631	.2493	.2331	.4126	2
4	.0062	.0070	.0272	.0318	.0699	.0862	.1360	.1795	1
5	.0008	.0008	.0046	.0046	.0163	.0163	.0435	.0435	0
	7		6		5		4		p \ r

n=7, m=6

r \ p	0		1		2		3		
0	.5714	.5714	.3077	.3077	.1538	.1538	.0699	.0699	6
1	.2637	.4284	.3077	.6923	.2517	.4055	.1678	.2377	5
2	.1099	.1647	.2098	.3846	.2517	.5943	.2331	.4708	4
3	.0399	.0548	.1119	.1748	.1865	.3426	.2331	.5291	3
4	.0120	.0149	.0466	.0629	.1049	.1561	.1748	.2960	2
5	.0026	.0029	.0140	.0163	.0419	.0512	.0932	.1212	1
6	.0003	.0003	.0023	.0023	.0093	.0093	.0280	.0280	0
	7		6		5		4		p \ r

n=7, m=7

r \ p	0		1		2		3		
0	.5333	.5333	.2666	.2666	.1230	.1230	.0513	.0513	7
1	.2666	.4665	.2872	.7333	.2154	.3384	.1305	.1818	6
2	.1231	.1999	.2154	.4461	.2349	.5733	.1958	.3776	5
3	.0513	.0768	.1305	.2307	.1958	.4265	.2175	.5951	4
4	.0186	.0255	.0653	.1002	.1305	.2307	.1904	.4048	3
5	.0056	.0069	.0261	.0349	.0685	.1002	.1305	.2144	2
6	.0012	.0013	.0076	.0088	.0261	.0317	.0653	.0839	1
7	.0001	.0001	.0012	.0012	.0056	.0056	.0186	.0186	0
	7		6		5		4		p \ r

n=8, m=5

r \ p	0		1		2		3		4		
0	.6428	.6428	.3956	.3956	.2308	.2308	.1259	.1259	.0629	.0629	5
1	.2472	.3571	.3296	.6043	.3147	.5455	.2517	.3776	.1748	.2377	4
2	.0824	.1099	.1798	.2747	.2517	.4544	.2797	.6573	.2622	.5000	3
3	.0225	.0275	.0719	.0949	.1398	.2027	.2098	.3426	.2622	.5000	2
4	.0045	.0050	.0200	.0230	.0524	.0629	.1049	.1328	.1748	.2377	1
5	.0005	.0005	.0030	.0030	.0105	.0105	.0279	.0279	.0629	.0629	0
	8		7		6		5		4		p \ r

n=8, m=6

r \ p	0		1		2		3		4		
0	.6000	.6000	.3428	.3428	.1846	.1846	.0923	.0923	.0419	.0419	6
1	.2571	.4000	.3165	.6571	2769	.4615	.2014	.2937	.1259	.1678	5
2	.0989	.1428	.1978	.3406	.2517	.5384	.2517	.5454	.2098	.3776	4
3	.0329	.0439	.0959	.1428	.1678	.2867	.2238	.4545	.2447	.6223	3
4	.0090	.0110	.0359	.0469	.0839	.1189	.1468	.2307	.2098	.3776	2
5	.0018	.0020	.0096	.0110	.0294	.0350	.0671	.0839	.1259	.1678	1
6	.0002	.0002	.0014	.0014	.0056	.0056	.0168	.0168	.0419	.0419	0
	8		7		6		5		4		p \ r

n=8, m=7

r \ p	0		1		2		3		4		
0	.5625	.5625	.3000	.3000	.1500	.1500	.0692	.0692	.0288	.0288	7
1	.2625	.4374	.3000	.7000	.2423	.3923	.1615	.2307	.0918	.1206	6
2	.1125	.1749	.2077	.4000	.2423	.6075	.2203	.4510	.1652	.2858	5
3	.0432	.0624	.1154	.1922	.1835	.3652	.2203	.5489	.2141	.5000	4
4	.0144	.0192	.0524	.0768	.1101	.1817	.1713	.3286	.2141	.5000	3
5	.0039	.0048	.0188	.0244	.0514	.0716	.1028	.1573	.1652	.2858	2
6	.0008	.0009	.0049	.0056	.0171	.0202	.0440	.0545	.0918	.1206	1
7	.0001	.0001	.0007	.0007	.0031	.0031	.0105	.0105	.0288	.0288	0
	8		7		6		5		4		p \ r

n=8, m=8

r \ p	0		1		2		3		4		
0	.5294	.5294	.2647	.2647	.1235	.1235	.0529	.0529	.0203	.0203	8
1	.2647	.4704	.2823	.5470	.2118	.3353	.1303	.1832	.0679	.0882	7
2	.1235	.2057	.2118	.4529	.2280	.5633	.1900	.3732	.1296	.2178	6
3	.0529	.0822	.1303	.2411	.1900	.4366	.2073	.5805	.1814	.3992	5
4	.0203	.0293	.0679	.1108	.1296	.2466	.1814	.4194	.2015	.6007	4
5	.0068	.0090	.0296	.0429	.0726	.1170	.1290	.2380	.1814	.3992	3
6	.0018	.0022	.0103	.0133	.0322	.0444	.0726	.1090	.1296	.2178	2
7	.0004	.0004	.0026	.0030	.0104	.0122	.0296	.0364	.0679	.0882	1
8			.0004	.0004	.0018	.0018	.0068	.0068	.0203	.0203	0
	8		7		6		5		4		p \ r

n=9, m=5

r \ p	0		1		2		3		4		
0	.6666	.6666	.4286	.4286	.2637	.2637	.1538	.1538	.0839	.0839	5
1	.2381	.3333	.3296	.5713	.3296	.5933	.2797	4335	.2098	.2937	4
2	.0733	.0952	.1648	.2417	.2397	.4065	.2797	.5664	.2797	.5734	3
3	.0183	.0219	.0599	.0769	.1199	.1668	.1865	.2867	.2447	.4264	2
4	.0033	.0036	.0150	.0170	.0399	.0469	.0816	.1002	.1398	.1817	1
5	.0003	.0003	.0020	.0020	.0070	.0070	.0186	.0186	.0419	.0419	0
	9		8		7		6		5		p \ r

n=9, m=6

r \ p	0		1		2		3		4		
0	.6250	.6250	.3750	.3750	.2143	.2143	.1154	.1154	.0577	.0577	6
1	.2500	.3749	.3214	.6249	.2967	.5110	.2307	.3461	.1573	.2150	5
2	.0893	.1249	.1854	.3035	.2472	.4889	.2622	.6083	.2360	.4510	4
3	.0275	.0356	.0824	.1181	.1498	.2417	.2098	.3916	.2447	.6957	3
4	.0068	.0081	.0281	.0357	.0674	.0919	.1224	.1818	.1836	.3042	2
5	.0012	.0013	.0067	.0076	.0210	.0245	.0489	.0594	.0944	.1206	1
6	.0001	.0001	.0009	.0009	.0035	.0035	.0105	.0105	.0262	.0262	0
	9		8		7		6		5		p \ r

n=9, m=7

r \ p	0		1		2		3		4		
0	.5882	.5882	.3309	.3309	.1765	.1765	.0882	.0882	.0407	.0407	7
1	.2573	.4116	.3088	.6690	.2647	.4412	.1900	.2782	.1188	.1595	6
2	.1029	.1543	.1985	.3602	.2443	.5587	.2375	.5157	.1944	.3539	5
3	.0368	.0514	.1018	.1617	.1697	.3144	.2160	.4842	.2267	.5806	4
4	.0113	.0164	.0424	.0599	.0925	.1447	.1512	.2682	.2015	.4193	3
5	.0028	.0033	.0139	.0175	.0389	.0522	.0806	.1170	.1360	.2178	2
6	.0005	.0005	.0032	.0036	.0115	.0133	.0302	.0364	.0648	.0818	1
7			.0004	.0004	.0018	.0018	.0062	.0062	.0170	.0170	0
	9		8		7		6		5		p \ r

n=9, m=8

r \ p	0		1		2		3		4		
0	.5555	.5555	.2941	.2941	.1470	.1470	.0686	.0686	.0294	.0294	8
1	.2614	.4443	.2941	.7058	.2353	.3823	.1569	.2255	.0905	.1199	7
2	.1144	.1829	.2059	.5117	.2353	.6176	.2111	.4366	.1584	.2783	6
3	.0458	.0685	.1176	.2058	.1810	.3823	.2111	.5633	.2015	.4798	5
4	.0163	.0227	.0566	.0882	.1131	.2013	.1680	.3522	.2015	.5200	4
5	.0050	.0064	.0226	.0316	.0576	.0882	.1075	.1824	.1612	.3185	3
6	.0012	.0014	.0072	.0090	.0230	.0306	.0537	.0767	.1008	.1573	2
7	.0002	.0002	.0016	.0018	.0066	.0076	.0192	.0230	.0452	.0565	1
8			.0002	.0002	.0010	.0010	.0038	.0038	.0113	.0113	0
	9		8		7		6		5		p \ r

n=9, m=9

r \ p	0		1		2		3		4		
0	.5263	.5263	.2631	.2631	.1238	.1238	.0542	.0542	.0217	.0217	9
1	.2631	.4736	.2786	.5417	.2090	.3328	.1300	.1842	.0697	.0914	8
2	.1238	.2105	.2090	.4581	.2229	.5557	.1857	.3700	.1286	.2200	7
3	.0542	.0867	.1300	.2491	.1857	.4442	.2000	.5700	.1750	.3950	6
4	.0217	.0325	.0696	.1191	.1286	.2585	.1750	.4300	.1909	.5859	5
5	.0077	.0108	.0321	.0495	.0750	.1299	.1273	.2550	.1719	.4140	4
6	.0024	.0031	.0125	.0174	.0364	.0549	.0764	.1277	.1273	.2421	3
7	.0006	.0007	.0039	.0049	.0140	.0185	.0364	.0513	.0750	.1148	2
8	.0001	.0001	.0009	.0010	.0039	.0045	.0125	.0149	.0321	.0398	1
9			.0001	.0001	.0006	.0006	.0024	.0024	.0077	.0077	0
	9		8		7		6		5		p \ r

n=10, m=5

r\p	0		1		2		3		4		5		
0	.6875	.6875	.4583	.4583	.2946	.2946	.1813	.1813	.1058	.1058	.0577	.0577	5
1	.2291	.3124	.3274	.5416	.3400	.6346	.3022	.4835	.2404	.3462	.1731	.2308	4
2	.0655	.0833	.1511	.2142	.2266	.3653	.2747	.5164	.2884	.6346	.2692	.5000	3
3	.0151	.0178	.0503	.0631	.1030	.1387	.1648	.2417	.2243	.3653	.2692	.5000	2
4	.0025	.0027	.0114	.0128	.0309	.0357	.0641	.0769	.1122	.1410	.1731	.2308	1
5	.0002	.0002	.0014	.0014	.0048	.0048	.0128	.0128	.0288	.0288	.0577	.0577	0
	10		9		8		7		6		5		p\r

n=10, m=6

r\p	0		1		2		3		4		5		
0	.6470	.6470	.4044	.4044	.2426	.2426	.1385	.1385	.0746	.0746	.0373	.0373	6
1	.2427	.3530	.3235	.5955	.3118	.5544	.2558	.3943	.1866	.2612	.1222	.1595	5
2	.0809	.1103	.1733	.2720	.2400	.4454	.2665	.6608	.2545	.5157	.2138	.3733	4
3	.0231	.0294	.0711	.0987	.1333	.2054	.1946	.3391	.2376	.4842	.2533	.6266	3
4	.0053	.0063	.0222	.0276	.0545	.0721	.1017	.1445	.1584	.2466	.2138	.3733	2
5	.0009	.0010	.0048	.0054	.0153	.0176	.0361	.0428	.0712	.0882	.1222	.1595	1
6	.0001	.0001	.0006	.0006	.0023	.0023	.0067	.0067	.0170	.0170	.0373	.0373	0
	10		9		8		7		6		5		p\r

n=10, m=7

r\p	0		1		2		3		4		5		
0	.6111	.6111	.3595	.3595	.2022	.2022	.1078	.1078	.0539	.0539	.0248	.0248	7
1	.2517	.3888	.3145	.6404	.2831	.4853	.2157	.3235	.1451	.1990	.0871	.1119	6
2	.0944	.1371	.1887	.3259	.2427	.5146	.2488	.5723	.2177	.4167	.1663	.2782	5
3	.0314	.0427	.0899	.1372	.1555	.2719	.2074	.4276	.2310	.6477	.2218	.5000	4
4	.0090	.0113	.0345	.0473	.0777	.1164	.1320	.2202	.1846	.3520	.2218	.5000	3
5	.0020	.0023	.0104	.0128	.0297	.0387	.0633	.0882	.1108	.1674	.1663	.2782	2
6	.0003	.0003	.0022	.0024	.0079	.0090	.0211	.0249	.0462	.0566	.0781	.1119	1
7			.0002	.0002	.0011	.0011	.0038	.0038	.0104	.0104	.0248	.0248	0
	10		9		8		7		6		5		p\r

n=10, m=8

r\p	0		1		2		3		4		5		
0	.5789	.5799	.3216	.3216	.1703	.1703	.0851	.0851	.0397	.0397	.0170	.0170	8
1	.2573	.4210	.3027	.6783	.2553	.4256	.1816	.2667	.1135	.1532	.0629	.0799	7
2	.1060	.1637	.1986	.3756	.2384	.5742	.2270	.4937	.1834	.3366	.1284	.2083	6
3	.0397	.0577	.1060	.1770	.1702	.3358	.2095	.5061	.2139	.5505	.1867	.3950	5
4	.0132	.0180	.0473	.0710	.0982	.1656	.1528	.2966	.1944	.4493	.2100	.6050	4
5	.0038	.0048	.0175	.0237	.0458	.0674	.0889	.1438	.1400	.2549	.1867	.3950	3
6	.0009	.0010	.0051	.0062	.0167	.0216	.0400	.0549	.0778	.1149	.1284	.2083	2
7	.0001	.0001	.0010	.0011	.0043	.0049	.0127	.0149	.0306	.0371	.0629	.0799	1
8			.0001	.0001	.0006	.0006	.0022	.0022	.0065	.0065	.0170	.0170	0
	10		9		8		7		6		5		p\r

n=10, m=9

r\p	0		1		2		3		4		5		
0	.5500	.5500	.2895	.2895	.1447	.1447	.0681	.0681	.0298	.0298	.0119	.0119	9
1	.2605	.4499	.2894	.7103	.2298	.3745	.1532	.2213	.0894	.1192	.0459	.0578	8
2	.1158	.1894	.2043	.4209	.2298	.6252	.2043	.4256	.1532	.2724	.0990	.1568	7
3	.0477	.0736	.1192	.2166	.1788	.3954	.2043	.5742	.1925	.4649	.1541	.3109	6
4	.0179	.0259	.0596	.0974	.1129	.2166	.1650	.3699	.1925	.5349	.1891	.5000	5
5	.0059	.0080	.0255	.0378	.0619	.1017	.1100	.2049	.1575	.3424	.1891	.5000	4
6	.0017	.0021	.0092	.0123	.0275	.0398	.0600	.0949	.1050	.1849	.1541	.3109	3
7	.0004	.0004	.0026	.0031	.0096	.0123	.0257	.0349	.0500	.0799	.0990	.1568	2
8			.0005	.0005	.0024	.0027	.0079	.0092	.0206	.0249	.0459	.0578	1
9					.0003	.0003	.0013	.0013	.0043	.0043	.0119	.0119	0
	10		9		8		7		6		5		p\r

n=10, m=10

r\p	0		1		2		3		4		5		
0	.5238	.5238	.2619	.2619	.1240	.1240	.0551	.0551	.0227	.0227	.0085	.0085	10
1	.2619	.4760	.2757	.5376	.2068	.3308	.1297	.1848	.0709	.0936	.0341	.0426	9
2	.1240	.2141	.2067	.4622	.2189	.5497	.1824	.3672	.1277	.2213	.0766	.1192	8
3	.0551	.0901	.1297	.2555	.1824	.4501	.1946	.5618	.1703	.3916	.1257	.2449	7
4	.0227	.0350	.0709	.1258	.1277	.2677	.1703	.4380	.1834	.5750	.1650	.4099	6
5	.0085	.0123	.0340	.0549	.0766	.1400	.1257	.2677	.1650	.4249	.1800	.5900	5
6	.0028	.0038	.0142	.0209	.0393	.0634	.0786	.1420	.1250	.2599	.1650	.4099	4
7	.0008	.0010	.0050	.0067	.0168	.0241	.0408	.0634	.0786	.1349	.1257	.2449	3
8	.0002	.0002	.0014	.0017	.0057	.0073	.0168	.0226	.0393	.0563	.0766	.1192	2
9			.0003	.0003	.0014	.0016	.0050	.0058	.0142	.0170	.0341	.0426	1
10					.0002	.0002	.0008	.0008	.0028	.0028	.0085	.0085	0
	10		9		8		7		6		5		p\r

n=11, m=5

r\p	0	1	2	3	4	5	
0	.7060	.5854	.3236	.2080	.1280	.0746	5
1	.2940	.5146	.6702	.5280	.3946	.2782	4
2	.0734	.1910	.3298	.4718	.6855	.5632	3
3	.0146	.0524	.1165	.2052	.3144	.4366	2
4	.0020	.0098	.0276	.0599	.1108	.1832	1
5	.0001	.0009	.0034	.0090	.0203	.0407	0
	11	10	9	8	7	6	p\r

n=11, m=6

r\p	0	1	2	3	4	5	
0	.6666	.4314	.2696	.1618	.0924	.0498	6
1	.3333	.5685	.5931	.4391	.3057	.1991	5
2	.0979	.2450	.4068	.5608	.5723	.4366	4
3	.0244	.0832	.1757	.2942	.4276	.6900	3
4	.0048	.0216	.0572	.1164	.2013	.3099	2
5	.0005	.0039	.0128	.0316	.0656	.1199	1
6		.0004	.0015	.0045	.0113	.0249	0
	11	10	9	8	7	6	p\r

n=11, m=7

r\p	0	1	2	3	4	5	
0	.6315	.3859	.2270	.1277	.0681	.0340	7
1	.3687	.6140	.5250	.3661	.2383	.0440	6
2	.1232	.2961	.4749	.6214	.4740	.3365	5
3	.0366	.1174	.2365	.3785	.5258	.5698	4
4	.0096	.0379	.0946	.1820	.2966	.4299	3
5	.0024	.0095	.0291	.0674	.1299	.2199	2
6	.0009	.0016	.0062	.0174	.0399	.0799	1
7		.0001	.0007	.0024	.0066	.0157	0
	11	10	9	8	7	6	p\r

n=11, m=8

r\p	0	1	2	3	4	5	
0	.6001	.3474	.1930	.1022	.0511	.0238	8
1	.3999	.6525	.4655	.3065	.1873	.1055	7
2	.1472	.3438	.5344	.5449	.3916	.2596	6
3	.0490	.1531	.2960	.4550	.6116	.4650	5
4	.0143	.0578	.1371	.2507	.3883	.6750	4
5	.0035	.0181	.0520	.1132	.2049	.3249	3
6	.0006	.0045	.0153	.0399	.0849	.1569	2
7		.0008	.0031	.0099	.0249	.0542	1
8		.0001	.0003	.0013	.0039	.0102	0
	11	10	9	8	7	6	p\r

n=11, m=9

r\p	0	1	2	3	4	5	
0	.5715	.3143	.1654	.0827	.0389	.0170	9
1	.4284	.6856	.4135	.2579	.1483	.0783	8
2	.1712	.3879	.5864	.4768	.3234	.2009	7
3	.0629	.1894	.3528	.5231	.5277	.3769	6
4	.0208	.0804	.1826	.3187	.4721	.5749	5
5	.0060	.0293	.0804	.1654	.2835	.4249	4
6	.0014	.0089	.0293	.0711	.1420	.2449	3
7	.0002	.0021	.0084	.0240	.0563	.1129	2
8		.0003	.0017	.0056	.0159	.0374	1
9			.0002	.0006	.0024	.0068	0
	11	10	9	8	7	6	p\r

n=11, m=10

r\p	0	1	2	3	4	5	
0	.5455	.2857	.1428	.0676	.0300	.0124	10
1	.4544	.7142	.3684	.2180	.1184	.0588	9
2	.1946	.4285	.6315	.4170	.2676	.1563	8
3	.0777	.2255	.4059	.5829	.4534	.3049	7
4	.0285	.1052	.2290	.3839	.5465	.4849	6
5	.0094	.0433	.1129	.2213	.3607	.5149	5
6	.0027	.0154	.0479	.1098	.2064	.3349	4
7	.0006	.0046	.0169	.0455	.0992	.1849	3
8	.0001	.0011	.0047	.0149	.0380	.0820	2
9		.0002	.0009	.0034	.0105	.0263	1
10			.0001	.0004	.0017	.0046	0
	11	10	9	8	7	6	p\r

n=11, m=11

r\p	0	1	2	3	4	5	
0	.5217	.2609	.1242	.0559	.0235	.0091	11
1	.4779	.5342	.3292	.1854	.0954	.0446	10
2	.2170	.4656	.5450	.3652	.2223	.1223	9
3	.0928	.2606	.4547	.5556	.3889	.2467	8
4	.0369	.1311	.2749	.4443	.5666	.4066	7
5	.0134	.0592	.1480	.2777	.4331	.5789	6
6	.0044	.0237	.0703	.1533	.2732	.4209	5
7	.0012	.0082	.0289	.0734	.1492	.2630	4
8	.0002	.0023	.0099	.0295	.0687	.1400	3
9		.0004	.0026	.0094	.0248	.0601	2
10			.0004	.0021	.0058	.0187	1
11				.0002	.0010	.0032	0
	11	10	9	8	7	6	p\r

n=12, m=5

r\p	0	1	2	3	4	5	6	
0	.7222	.5099	.3505	.2337	.1502	.0924	.0539	5
1	.2778	.4901	.7011	.5675	.4391	.3235	.2255	4
2	.0653	.1715	.2986	.4325	.5609	.6176	.5000	3
3	.0122	.0441	.0983	.1757	.2720	.3824	.5000	2
4	.0016	.0077	.0213	.0473	.0882	.1471	.2255	1
5	.0001	.0007	.0025	.0065	.0147	.0294	.0539	0
	12	11	10	9	8	7	6	p\r

n=12, m=6

r\p	0	1	2	3	4	5	6	
0	.6842	.4561	.2952	.1845	.1107	.0632	.0340	6
1	.3157	.5438	.6272	.4797	.3478	.2383	.1532	5
2	.0877	.2218	.3728	.5203	.6215	.4937	.3699	4
3	.0206	.0709	.1514	.2568	.3758	.5062	.6300	3
4	.0038	.0172	.0460	.0946	.1656	.2585	.3699	2
5	.0005	.0028	.0095	.0237	.0495	.0913	.1532	1
6		.0002	.0010	.0031	.0077	.0170	.0340	0
	12	11	10	9	8	7	6	p\r

n=12, m=7

r\p	0	1	2	3	4	5	6	
0	.6501	.4106	.2509	.1476	.0830	.0442	.0221	7
1	.3498	.5894	.7491	.4059	.2767	.1770	.1055	6
2	.1103	.2701	.4391	.5941	.5257	.3916	.2724	5
3	.0305	.1011	.2067	.3358	.4742	.6301	.5000	4
4	.0070	.0307	.0776	.1513	.2507	.3699	.5000	3
5	.0012	.0072	.0223	.0520	.1017	.1749	.2724	2
6	.0001	.0012	.0044	.0123	.0286	.0579	.1055	1
7		.0001	.0004	.0015	.0042	.0102	.0221	0
	12	11	10	9	8	7	6	p\r

n=12, m=8

r\p	0	1	2	3	4	5	6	
0	.6192	.3715	.2151	.1194	.0632	.0316	.0147	8
1	.3808	.6285	.5018	.3444	.2213	.1328	.0737	7
2	.1331	.3157	.4982	.5904	.4427	.3099	.2009	6
3	.0419	.1332	.2620	.4097	.5573	.5279	.3916	5
4	.0115	.0473	.1145	.2129	.3359	.4721	.6083	4
5	.0026	.0138	.0407	.0899	.1656	.2677	.3916	3
6	.0004	.0032	.0112	.0294	.0634	.1191	.2009	2
7		.0005	.0021	.0067	.0170	.0374	.0737	1
8			.0002	.0008	.0024	.0063	.0147	0
	12	11	10	9	8	7	6	p\r

n=12, m=9

r\p	0	1	2	3	4	5	6	
0	.5910	.3378	.1857	.0977	.0489	.0230	.0100	9
1	.4090	.6622	.4496	.2932	.1783	.1006	.0522	8
2	.1557	.3583	.5504	.5232	.3723	.2454	.1488	7
3	.0544	.1663	.3158	.4768	.5837	.4386	.3049	6
4	.0171	.0668	.1548	.2755	.4163	.6393	.5000	5
5	.0047	.0229	.0643	.1346	.2352	.3607	.5000	4
6	.0011	.0065	.0220	.0541	.1098	.1935	.3049	3
7	.0002	.0014	.0059	.0170	.0401	.0820	.1488	2
8		.0002	.0011	.0037	.0103	.0247	.0522	1
9			.0001	.0004	.0014	.0040	.0100	0
	12	11	10	9	8	7	6	p\r

n=12, m=10

r \ p	0	1	2	3	4	5	6	
0	.5652	.3083	.1615	.0807	.0383	.0170	.0070	10
1	.4347	.6916	.4037	.2507	.1445	.0770	.0376	9
2	.1778	.3980	.5962	.4632	.3132	.1951	.1111	8
3	.0677	.1998	.3667	.5367	.5100	.3631	.2371	7
4	.0237	.0885	.1967	.3367	.4899	.5521	.4067	6
5	.0075	.0344	.0917	.1736	.3061	.4479	.5933	5
6	.0021	.0115	.0366	.0856	.1644	.2734	.4067	4
7	.0005	.0032	.0121	.0331	.0736	.1401	.2371	3
8	.0001	.0007	.0031	.0100	.0260	.0571	.1111	2
9		.0001	.0005	.0021	.0065	.0166	.0376	1
10				.0002	.0009	.0026	.0070	0
	12	11	10	9	8	7	6	p \ r

n=12, m=11

r \ p	0	1	2	3	4	5	6	
0	.5417	.2826	.1413	.0673	0303	.0127	.0049	11
1	.4582	.7172	.3634	.2153	.1179	.0594	.0274	10
2	.1991	.4346	.6366	.4101	.2640	.1557	.0835	9
3	0813	.2327	.4145	5899	.4445	.3001	.1846	8
4	.0309	.1116	.2392	.3951	.5554	.4733	.3289	7
5	.0107	.0479	.1223	.2347	3749	.5267	.5000	6
6	0033	0182	.0549	1223	.2233	.3535	.5000	5
7	.0009	.0060	0212	.0550	.1151	.2069	.3289	4
8	.0002	.0016	.0068	.0206	.0497	.1021	.1846	3
9		.0003	.0017	.0061	.0170	.0402	.0835	2
10			.0003	.0013	.0041	.0113	.0274	1
11				.0001	.0005	.0017	.0049	0
	12	11	10	9	8	7	6	p \ r

n=12, m=12

r \ p	0	1	2	3	4	5	6	
0	.5200	.2600	.1243	.0565	.0242	.0097	.0035	12
1	.4797	.5313	.3278	.1857	.0969	.0464	.0201	11
2	.2197	.4682	.5410	.3634	.2231	.1249	.0633	10
3	.0953	.2647	4589	.5504	.3867	.2482	.1441	9
4	.0388	.1354	.2812	.4495	5600	.4041	.2653	8
5	.0146	.0627	.1550	.2859	.4396	.5705	.4178	7
6	.0049	.0260	.0764	.1627	.2837	.4290	.5820	6
7	.0014	.0093	0333	.0819	.1625	.2772	.4178	5
8	.0003	.0026	.0125	0357	.0809	.1566	.2653	4
9		.0002	.0038	0131	.0338	.0749	.1441	3
10			.0008	0038	.0112	.0287	.0633	2
11				.0008	.0026	.0079	.0201	1
12					.0003	.0012	.0035	0
	12	11	10	9	8	7	6	p \ r

n=13, m=5

r \ p	0	1	2	3	4	5	6	
0	.7367	.5321	.3757	.2582	.1722	.1107	.0681	5
1	.2631	.4678	.6242	.6026	.4796	.3661	.2668	4
2	.0585	.1548	.2721	.3973	5203	.6641	.5557	3
3	.0103	.0374	.0843	.1514	2365	.3358	.4442	2
4	.0013	.0061	.0172	.0379	.0710	.1191	.1842	1
5	.0001	.0005	.0018	.0048	0108	.0216	.0397	0
	13	12	11	10	9	8	7	p \ r

n=13, m=6

r \ p	0	1	2	3	4	5	6	
0	.7000	.4790	.3193	.2066	.1291	.0774	.0443	6
1	.2999	.5209	.6574	.5165	.3873	.2766	.1873	5
2	.0789	.2017	.3426	.4835	.6640	.5448	.4257	4
3	.0175	.0608	.1313	.2252	.3359	.4551	.6858	3
4	.0031	.0139	.0374	.0776	.1372	.2167	.3141	2
5	.0004	.0022	.0072	0180	.0379	.0704	.1191	1
6		.0002	.0007	.0021	.0054	.0119	.0238	0
	13	12	11	10	9	8	7	p \ r

n=13, m=7

r \ p	0	1	2	3	4	5	6	
0	.6666	.4334	.2734	.1672	.0984	.0553	.0295	7
1	.3333	.5665	.5927	.4427	.3136	.2103	.1328	6
2	.1000	.2472	.4071	.5572	.5719	.4427	.3235	5
3	.0263	.0876	.1817	.2990	.4280	.6811	.5619	4
4	.0058	.0250	.0643	.1268	.2128	.3188	.4380	3
5	.0010	.0055	.0173	.0407	.0804	.1400	.2213	2
6	.0001	.0008	.0032	.0089	.0208	.0425	.0783	1
7			.0003	.0010	.0028	.0068	.0147	0
	13	12	11	10	9	8	7	p \ r

n=13, m=8

r \ p	0	1	2	3	4	5	6	
0	.6364	.3940	.2364	.1368	.0760	.0402	.0201	8
1	.3634	.6059	.5350	.3801	.2549	.1609	.0952	7
2	.1210	.2908	.4650	.6306	.4897	.3582	.2455	6
3	.0362	.1166	.2327	.3694	5103	.5836	4536	5
4	.0094	.0392	.0961	.1816	.2911	4164	.6703	4
5	.0020	.0108	.0321	.0720	.1346	.2213	.3297	3
6	.0003	.0023	.0082	0219	.0479	.0913	.1563	2
7		.0003	.0014	.0046	.0118	.0263	.0523	1
8			.0001	.0005	.0015	.0040	.0094	0
	13	12	11	10	9	8	7	p \ r

n=13, m=9

r \ p	0	1	2	3	4	5	6	
0	.6087	.3597	.2055	.1130	.0595	.0297	.0140	9
1	.3912	.6402	.4829	.3272	.2082	.1242	.0691	8
2	.1423	.3319	.5170	.5652	.4182	.2895	.1867	7
3	.0475	.1469	.2833	.4348	.6326	.4953	.3630	6
4	.0143	.0560	.1319	.2388	.3673	.5046	.5665	5
5	.0038	.0182	.0517	.1102	.1958	.3062	4335	4
6	.0008	.0049	.0167	.0416	.0856	1535	.2470	3
7	.0001	.0010	.0042	.0122	.0291	.0602	.1113	2
8		.0001	.0007	.0025	.0069	.0166	.0355	1
9			.0001	.0003	.0009	.0024	.0061	0
	13	12	11	10	9	8	7	p \ r

n=13, m=10

r\p	0	1	2	3	4	5	6	
0	.5833	.3297	.1798	0942	.0471	.0223	.0099	10
1	.4165	.6702	.4367	.2826	.1710	0967	.0507	9
2	.1629	.3705	.5632	.5057	.3569	2345	.1425	8
3	.0592	.1778	.3320	.4942	5611	.4182	.2895	7
4	.0197	.0750	.1697	.2959	.4388	6111	4732	6
5	.0059	.0277	.0751	.1530	.2602	.3888	.6598	5
6	.0015	.0088	.0283	.0672	.1315	.2234	.3401	4
7	.0003	.0023	.0088	.0243	.0550	1068	1846	3
8		.0004	.0021	.0068	.0180	.0402	.0796	2
9			.0003	.0013	.0041	.0107	.0245	1
10				.0001	.0005	.0015	.0041	0
	13	12	11	10	9	8	7	p\r

n=13, m=12

r\p	0	1	2	3	4	5	6	
0	.5384	.2800	.1400	.0670	.0304	.0130	.0052	12
1	4615	7199	3591	2131	1173	.0599	.0283	11
2	2030	.4399	6408	4044	2608	1550	.0847	10
3	0845	.2390	4217	.5955	4370	.2960	.1841	9
4	.0330	.1172	2478	.4042	5629	4639	.3240	8
5	.0119	0520	1304	2456	3867	.5360	.4882	7
6	.0039	0207	.0612	.1328	2374	.3681	.5117	6
7	.0011	0073	0253	.0632	1286	2244	.3475	5
8	.0002	.0022	0090	0259	0602	1188	2068	4
9		.0005	.0027	.0088	.0236	.0529	.1042	3
10		.0001	.0006	.0023	.0073	.0187	.0420	2
11			.0001	.0004	.0016	.0047	.0121	1
12					.0002	.0006	.0019	0
	13	12	11	10	9	8	7	p\r

n=13, m=11

r\p	0	1	2	3	4	5	6	
0	.5600	.3034	.1583	.0791	.0377	.0169	.0071	11
1	.4399	.6965	.3957	.2449	.1413	.0758	.0376	10
2	.1832	.4064	.6042	.4521	.3049	.1903	.1095	9
3	.0716	.2086	.3781	.5478	.4958	.3520	.2308	8
4	.0260	.0955	.2086	.3514	.5041	.5339	.3925	7
5	.0086	.0390	.1015	.1987	.3244	.4660	.5704	6
6	.0025	.0140	.0432	.0981	.1829	.2962	.4295	5
7	.0006	.0043	.0158	.0415	.0886	.1628	.2653	4
8	.0001	.0011	.0048	.0146	.0357	.0748	.1383	3
9		.0002	.0011	.0040	.0113	.0272	.0575	2
10			.0002	.0008	.0025	.0070	.0171	1
11				.0001	.0003	.0010	.0027	0
	13	12	11	10	9	8	7	p\r

n=13, m=13

r\p	0	1	2	3	4	5	6	
0	.5187	.2593	.1245	.0570	.0248	.0101	.0039	13
1	.4813	.5290	.3267	.1860	.0980	.0477	.0215	12
2	.2220	.4709	.5378	.3619	.2236	.1268	.0659	11
3	.0975	.2687	.4621	.5462	.3848	.2490	.1474	10
4	.0405	.1397	.2862	.4537	.5645	.4017	.2672	9
5	.0157	.0664	.1606	.2925	.4454	.5634	.4154	8
6	.0056	.0288	.0815	.1703	.2927	.4365	.5735	7
7	.0018	.0112	.0371	.0889	.1730	.2883	.4265	6
8	.0005	.0038	.0149	.0410	.0907	.1697	.2797	5
9	.0001	.0011	.0051	.0164	.0413	.0871	.1611	4
10		.0002	.0014	.0055	.0158	.0377	.0788	3
11			.0003	.0014	.0048	.0130	.0309	2
12				.0002	.0011	.0032	.0087	1
13					.0002	.0004	.0013	0
	13	12	11	10	9	8	7	p\r

n=14, m=5

r\p	0	1	2	3	4	5	6	7	
0	.7500	.5526	.3991	.2818	.1937	.1291	.0830	.0511	5
1	.2498	.4473	.6008	.6340	.5165	.4059	.3565	.2214	4
2	.0524	.1403	.2486	.3660	.4834	.7039	.6045	.5000	3
3	.0086	.0320	.0725	.1312	.2067	.2961	.3955	.5000	2
4	.0009	.0049	.0138	.0307	.0577	.0974	.1517	.2214	1
5		.0004	.0013	.0036	.0081	.0162	.0298	.0511	0
	14	13	12	11	10	9	8	7	p\r

n=14, m=6

r\p	0	1	2	3	4	5	6	7	
0	.7143	.5000	.3421	.2281	.1476	.0922	.0554	.0316	6
1	.2857	.4999	.6578	.5501	.4243	.3136	.2214	.1484	5
2	.0714	.1842	.3157	.4499	.5756	.5903	.4768	.3673	4
3	.0150	.0526	.1144	.1984	.2989	.4097	.5230	.6327	3
4	.0025	.0113	.0305	.0642	.1144	.1826	.2678	.3673	2
5	.0003	.0016	.0053	.0139	.0293	.0549	.0936	.1484	1
6		.0001	.0005	.0015	.0038	.0085	.0170	.0316	0
	14	13	12	11	10	9	8	7	p\r

n=14, m=7

r \ p	0	1	2	3	4	5	6	7	
0	.6819	.4546	.2955	.1866	.1140	.0670	.0377	.0201	7
1	.3181	.5451	.6221	.4769	.3488	.2431	.1610	.1006	6
2	.0908	.2270	.3779	.5231	.6129	.4897	.3723	.2678	5
3	.0226	.0763	.1602	.2670	.3870	.5103	.6161	.5000	4
4	.0047	.0205	.0535	.1069	.1815	.2754	.3838	.5000	3
5	.0008	.0041	.0135	.0322	.0641	.1128	.1806	.2678	2
6	.0001	.0006	.0023	.0066	.0154	.0316	.0587	.1006	1
7			.0002	.0007	.0019	.0046	.0100	.0201	0
	14	13	12	11	10	9	8	7	p \ r

n=14, m=8

r \ p	0	1	2	3	4	5	6	7	
0	.6521	.4150	.2569	.1541	.0892	.0495	.0262	.0131	8
1	.3477	.5849	.5651	.4138	.2875	.1895	.1180	.0691	7
2	.1106	.2686	.4348	.5861	.5325	.4039	.2895	.1951	6
3	.0315	.1026	.2076	.3337	.4674	.6326	.5099	.3889	5
4	.0078	.0327	.0814	.1555	.2531	.3673	.4899	.6110	4
5	.0016	.0085	.0257	.0581	.1102	.1836	.2779	.3889	3
6	.0002	.0017	.0062	.0165	.0367	.0705	.1224	.1951	2
7		.0002	.0010	.0032	.0084	.0187	.0376	.0691	1
8			.0001	.0003	.0010	.0026	.0061	.0131	0
	14	13	12	11	10	9	8	7	p \ r

n=14, m=9

r \ p	0	1	2	3	4	5	6	7	
0	.6250	.3804	.2248	.1285	.0706	.0371	.0186	.0087	9
1	.3748	.6194	.5138	.3597	.2379	.1487	.0875	.0480	8
2	.1303	.3082	.4860	.6031	.4610	.3325	.2253	.1425	7
3	.0414	.1303	.2548	.3967	.5388	.5469	.4182	.3000	6
4	.0118	.0473	.1128	.2074	.3244	.4531	.6249	.5000	5
5	.0029	.0146	.0418	.0905	.1636	.2601	.3749	.5000	4
6	.0006	.0037	.0126	.0321	.0671	.1223	.2000	.3000	3
7	.0001	.0007	.0029	.0087	.0212	.0446	.0834	.1425	2
8		.0001	.0004	.0016	.0046	.0113	.0244	.0480	1
9				.0001	.0005	.0015	.0038	.0087	0
	14	13	12	11	10	9	8	7	p \ r

n=14, m=10

r \ p	0	1	2	3	4	5	6	7	
0	.6001	.3500	.1978	.1079	.0565	.0282	.0134	.0059	10
1	.3998	.6499	.4676	.3135	.1978	.1174	.0654	.0339	9
2	.1498	.3456	.5323	.5447	.3986	.2736	.1757	.1047	8
3	.0520	.1589	.3010	.4552	.6069	.4697	.3411	.2307	7
4	.0164	.0640	.1469	.2604	.3931	.5302	.5340	.4039	6
5	.0046	.0225	.0617	.1279	.2216	.3373	.4659	.5959	5
6	.0011	.0068	.0220	.0530	.1058	.1829	.2840	.4039	4
7	.0002	.0017	.0064	.0179	.0415	.0819	.1441	.2307	3
8		.0003	.0014	.0045	.0127	.0286	.0575	.1047	2
9			.0002	.0006	.0027	.0070	.0162	.0339	1
10				.0001	.0003	.0009	.0024	.0059	0
	14	13	12	11	10	9	8	7	p \ r

n=14, m=11

r \ p	0	1	2	3	4	5	6	7	
0	.5769	.3231	.1750	.0913	.0456	.0217	.0098	.0041	11
1	.4230	.6768	.4261	.2739	.1652	.0934	.0494	.0242	10
2	.1691	.3807	.5739	.4913	.3445	.2256	.1375	.0775	9
3	.0633	.1875	.3454	.5086	.5427	.4018	.2774	.1774	8
4	.0219	.0821	.1824	.3130	.4572	.5884	.4523	.3240	7
5	.0069	.0319	.0846	.1688	.2810	.4115	.6319	.5000	6
6	.0019	.0109	.0342	.0791	.1504	.2483	.3679	.5000	5
7	.0004	.0032	.0118	.0316	.0688	.1286	.2140	.3240	4
8		.0007	.0033	.0104	.0260	.0553	.1041	.1774	3
9		.0001	.0007	.0026	.0077	.0187	.0400	.0775	2
10			.0001	.0004	.0016	.0044	.0109	.0242	1
11					.0002	.0005	.0016	.0041	0
	14	13	12	11	10	9	8	7	p \ r

n=14, m=12

r \ p	0	1	2	3	4	5	6	7	
0	.5555	.2991	.1556	.0778	.0372	.0169	.0072	.0029	12
1	.4444	.7006	.3889	.2401	.1386	.0748	.0376	.0175	11
2	.1880	.4134	.6110	.4430	.2980	.1864	.1081	.0578	10
3	.0752	.2160	.3878	.5569	.4840	.3431	.2256	.1368	9
4	.0282	.1016	.2187	.3636	.5159	.5193	.3811	.2589	8
5	.0098	.0431	.1100	.2114	.3397	.4806	.5521	.4153	7
6	.0031	.0163	.0491	.1089	.1988	.3147	.4478	.5846	6
7	.0009	.0054	.0192	.0491	.1021	.0817	.2882	.4153	5
8	.0002	.0015	.0064	.0190	.0451	.0905	.1612	.2589	4
9		.0003	.0017	.0061	.0166	.0376	.0757	.1368	3
10			.0003	.0015	.0048	.0123	.0282	.0578	2
11				.0002	.0010	.0028	.0075	.0175	1
12					.0001	.0003	.0011	.0029	0
	14	13	12	11	10	9	8	7	p \ r

n=14, m=13

r \ p	0	1	2	3	4	5	6	7	
0	.5358	.2778	.1389	.0666	.0305	.0132	.0054	.0020	13
1	.4641	.7220	.3556	.2111	.1169	.0603	.0289	.0127	12
2	.2061	.4442	.6444	.3996	.2582	.1545	.0854	.0433	11
3	.0871	.2442	.4277	.6004	.4310	.2927	.1836	.1056	10
4	.0347	.1219	.2549	.4119	.5691	.4564	.3200	.2065	9
5	.0129	.0555	.1371	.2549	.3963	.5436	.4789	.3427	8
6	.0044	.0229	.0665	.1418	.2490	.3799	.5210	.5000	7
7	.0013	.0084	.0288	.0704	.1399	.2387	.3621	.5000	6
8	.0003	.0026	.0110	.0308	.0693	.1328	.2245	.3427	5
9		.0006	.0036	.0116	.0296	.0640	.1212	.2065	4
10		.0001	.0010	.0036	.0105	.0258	.0550	.1056	3
11			.0002	.0008	.0029	.0082	.0197	.0433	2
12				.0001	.0005	.0018	.0048	.0127	1
13						.0002	.0004	.0020	0
	14	13	12	11	10	9	8	7	p \ r

n=14, m=14

r \ p	0	1	2	3	4	5	6	7	
0	.5172	.2586	.1245	.0575	.0253	.0105	.0041	.0015	14
1	.4826	.5268	.3256	.1862	.0990	.0490	.0225	.0095	13
2	.2240	.4729	.5348	.3605	.2240	.1286	.0680	.0329	12
3	.0995	.2718	.4651	.5424	.3832	.2499	.1499	.0821	11
4	.0420	.1431	.2908	.4575	.5500	.4000	.2683	.1648	10
5	.0167	.0694	.1658	.2983	.4497	.5580	.4131	.2816	9
6	.0062	.0309	.0862	.1770	.2996	.4419	.5664	.4239	8
7	.0021	.0125	.0407	.0951	.1812	.2971	.4334	.5758	7
8	.0006	.0045	.0173	.0459	.0985	.1803	.2911	.4239	6
9	.0001	.0014	.0065	.0196	.0474	.0973	.1748	.2816	5
10		.0003	.0021	.0072	.0197	.0456	.0918	.1648	4
11			.0006	.0022	.0068	.0180	.0407	.0821	3
12			.0001	.0005	.0018	.0056	.0144	.0329	2
13					.0003	.0012	.0036	.0095	1
14						.0001	.0005	.0015	0
	14	13	12	11	10	9	8	7	p \ r

n=15, m=5

r \ p	0	1	2	3	4	5	6	7	
0	.7619	.5714	.4210	.3041	.2146	.1476	.0984	.0632	5
1	.2381	.4285	.5789	.6618	.5500	.4427	.3443	.2578	4
2	.0476	.1278	.2280	.3381	.4499	.5572	.6470	.5497	3
3	.0075	.0276	.0629	.1145	.1816	.2621	.3529	.4502	2
4	.0008	.0040	.0113	.0251	.0475	.0805	.1259	.1848	1
5		.0003	.0010	.0027	.0062	.0124	.0227	.0389	0
	15	14	13	12	11	10	9	8	p \ r

n=15, m=6

r \ p	0	1	2	3	4	5	6	7	
0	.7273	.5196	.3637	.2488	.1659	.1073	.0670	.0401	6
1	.2726	.4804	.6363	.5805	.4586	.3487	.2549	.1781	5
2	.0648	.1688	.2918	.4195	.5414	.6306	.5233	.4170	4
3	.0129	.0457	.1003	.1755	.2670	.3694	.4767	.5830	3
4	.0020	.0093	.0253	.0535	.0962	.1547	.2290	.3176	2
5	.0002	.0013	.0042	.0108	.0230	.0432	.0742	.1185	1
6		.0001	.0003	.0011	.0028	.0061	.0123	.0230	0
	15	14	13	12	11	10	9	8	p \ r

n=15, m=7

r \ p	0	1	2	3	4	5	6	7	
0	.6955	.4742	.3162	.2055	.1298	.0793	.0466	.0262	7
1	.3043	.5256	.6482	.5084	.3821	.2753	.1898	.1242	6
2	.0830	.2094	.3517	.4915	.6493	.5325	.4184	.3131	5
3	.0198	.0671	.1420	.2392	.3506	.4674	.6634	.5554	4
4	.0040	.0172	.0450	.0907	.1557	.2387	.3366	.4445	3
5	.0007	.0033	.0107	.0257	.0517	.0917	.1482	.2224	2
6	.0001	.0004	.0017	.0049	.0116	.0239	.0446	.0770	1
7			.0001	.0005	.0013	.0032	.0070	.0140	0
	15	14	13	12	11	10	9	8	p \ r

n=15, m=8

r \ p	0	1	2	3	4	5	6	7	
0	.6666	.4347	.2767	.1713	.1028	.0595	.0330	.0175	8
1	.3333	.5651	.5929	.4453	.3191	.2181	.1419	.0875	7
2	.1015	.2489	.4070	.5546	.5715	.4468	.3324	.2345	6
3	.0277	.0908	.1856	.3022	.4283	.5531	.5611	.4444	5
4	.0066	.0276	.0691	.1339	.2204	.3244	.4388	.6665	4
5	.0013	.0068	.0206	.0473	.0905	.1529	.2347	.3334	3
6	.0002	.0013	.0046	.0127	.0282	.0549	.0965	.1557	2
7		.0002	.0006	.0023	.0060	.0135	.0274	.0507	1
8				.0002	.0006	.0017	.0041	.0087	0
	15	14	13	12	11	10	9	8	p \ r

n=15, m=9

r \ p	0	1	2	3	4	5	6	7	
0	.6400	.4000	.2435	.1439	.0822	.0452	.0238	.0119	9
1	.3599	.5999	.5423	.3905	.2771	.1737	.1071	.0623	8
2	.1199	.2869	.4576	.6094	.5108	.3737	.2639	.1757	7
3	.0365	.1162	.2299	.3628	.5091	.5933	.4697	.3521	6
4	.0100	.0403	.0971	.1810	.2971	.4066	.5303	.5600	5
5	.0024	.0119	.0342	.0750	.1474	.2214	.3245	.4400	4
6	.0005	.0029	.0098	.0251	.0532	.0979	1628	.2481	3
7	.0001	.0006	.0021	.0064	.0158	.0333	.0633	.1095	2
8		.0001	.0003	.0011	.0032	.0078	.0171	.0339	1
9				.0001	.0003	.0009	.0024	.0056	0
	15	14	13	12	11	10	9	8	p \ r

n=15, m=10

r \ p	0	1	2	3	4	5	6	7	
0	.6154	.3692	.2154	.1217	.0664	.0348	.0174	.0082	10
1	.3845	.6307	.4963	.3430	.2245	.1391	.0815	.0448	9
2	.1383	.3230	.5035	.5802	.4397	.3121	.2096	.1320	8
3	.0466	.1424	.2737	.4197	.5621	.5171	.3905	.2774	7
4	.0139	.0548	.1278	.2300	.3524	.4828	.5884	.4640	6
5	.0037	.0183	.0512	.1077	.1893	.2928	.4116	.6559	5
6	0008	.0052	.0173	.0425	.0857	.1503	.2375	.3441	4
7	.0001	.0012	.0048	.0137	.0317	.0633	.1131	.1842	3
8		.0002	.0010	.0034	.0091	.0207	.0420	.0776	2
9			.0001	.0006	.0018	.0047	.0109	.0231	1
10				.0001	.0002	.0006	.0015	.0037	0
	15	14	13	12	11	10	9	8	p \ r

n=15, m=11

r \ p	0	1	2	3	4	5	6	7	
0	.5925	.3418	.1915	.1037	.0541	.0270	.0129	.0058	11
1	.4074	.6580	.4547	.3021	.1893	.1120	.0625	.0329	10
2	.1567	.3572	.5451	.5275	.3825	.2608	.1669	.0998	9
3	.0564	.1692	.3162	.4724	.5854	.4488	.3235	.2183	8
4	.0188	.0711	.1601	.2792	.4144	.5509	.5077	.3812	7
5	.0057	.0265	.0709	.1440	.2435	.3629	.4922	.5636	6
6	.0015	.0087	.0272	.0643	.1239	.2081	.3149	.4363	5
7	.0003	.0025	.0088	.0244	.0536	.1017	.1730	.2670	4
8		.0006	.0023	.0076	.0191	.0411	.0789	.1367	3
9		.0001	.0004	.0018	.0053	.0129	.0282	.0553	2
10				.0003	.0010	.0028	.0071	.0158	1
11					.0001	.0003	.0010	.0024	0
	15	14	13	12	11	10	9	8	p \ r

n=15, m=12

r \ p	0	1	2	3	4	5	6	7	
0	.5714	.3175	.1710	.0889	.0444	.0212	.0096	.0041	12
1	.4286	.6824	.4172	.2667	.1604	.0907	.0482	.0239	11
2	.1746	.3894	.5828	.4794	.3343	.2183	.1332	.0756	10
3	.0672	.1960	.3571	.5206	.5276	.3884	.2675	.1717	9
4	.0243	.0885	.1935	.3273	.4723	.5697	.4353	.3113	8
5	.0082	.0360	.0932	.1824	.2984	.4303	.6091	.4788	7
6	.0026	.0131	.0397	.0896	.1665	.2691	.3908	.6482	6
7	.0009	.0042	.0148	.0384	.0811	.1475	.2388	.3517	5
8	.0001	.0011	.0047	.0140	.0337	.0693	.1258	.2065	4
9		.0002	.0012	.0042	.0115	.0270	.0552	.1017	3
10			.0002	.0009	.0030	.0082	.0190	.0397	2
11				.0001	.0005	.0017	.0046	.0110	1
12						.0002	.0006	.0016	0
	15	14	13	12	11	10	9	8	p \ r

n=15, m=13

r \ p	0	1	2	3	4	5	6	7	
0	.5517	.2956	.1533	.0766	.0367	.0168	.0073	.0030	13
1	.4482	.7043	.3832	.2360	.1363	.0740	.0376	.0178	12
2	.1920	.4197	.6168	.4352	.2923	.1832	.1069	.0579	11
3	.0781	.2227	.3960	.5647	.4743	.3357	.2213	.1353	10
4	.0299	.1070	.2274	.3741	.5256	.5073	.3718	.2535	9
5	.0107	.0468	.1174	.2225	.3523	.4927	.5373	.4037	8
6	.0035	.0185	.0544	.1185	.2120	.3302	.4627	.5664	7
7	.0010	.0065	.0224	.0562	.1135	.1978	.3070	.4335	6
8	.0002	.0019	.0081	.0234	.0533	.1043	.1802	.2816	5
9		.0004	.0025	.0084	.0215	.0474	.0916	.1596	4
19			.0006	.0025	.0071	.0179	.0389	.0762	3
11			.0001	.0006	.0018	.0053	.0130	.0289	2
12				.0001	.0003	.0011	.0030	.0078	1
13						.0001	.0004	.0011	0
	15	14	13	12	11	10	9	8	p \ r

n=15, m=14

r \ p	0	1	2	3	4	5	6	7	
0	.5332	.2758	.1379	.0664	.0306	.0135	.0056	.0022	14
1	.4667	.7242	.3524	.2094	.1164	.0607	.0295	.0134	13
2	.2093	.4484	.6475	.3954	.2559	.1541	.0861	.0445	12
3	.0897	.2492	.4329	.6046	.4257	.2900	.1831	.1068	11
4	0366	.1266	.2612	.4183	.5741	.4501	.3165	.2060	10
5	.0141	.0592	.1432	.2627	.4043	.5499	.4710	.3384	9
6	.0051	.0255	.0714	.1495	.2588	.3898	.5289	.4903	8
7	.0017	.0102	.0322	.0768	.1497	.2508	.3744	.5096	7
8	.0005	.0038	.0130	.0352	.0775	.1449	.2394	.3577	6
9	.0001	.0014	.0046	.0142	.0354	.0740	.1360	.2248	5
10		.0002	.0014	.0049	.0140	.0327	.0671	.1236	4
11			.0003	.0014	.0046	.0121	.0277	.0575	3
12				.0003	.0012	.0035	.0090	.0214	2
13					.0002	.0007	.0020	.0058	1
14						.0001	.0002	.0010	0
	15	14	13	12	11	10	9	8	p \ r

n=15, m=15

r \ p	0	1	2	3	4	5	6	7	
0	.5161	.2581	.1246	.0578	.0257	.0109	.0043	.0016	15
1	.4837	.5251	.3248	.1863	.0998	.0500	.0233	.0101	14
2	.2256	.4747	.5324	.3593	.2244	.1299	.0696	.0345	13
3	.1010	.2745	.4675	.5392	.3818	.2504	.1517	.0848	12
4	.0432	.1460	.2945	.4606	.5461	.3983	.2691	.1678	11
5	.0175	.0719	.1699	.3032	.4537	.5532	.4111	.2831	10
6	.0066	.0328	.0900	.1827	.3058	.4466	.5606	.4219	9
7	.0023	.0138	.0437	.1006	.1884	.3046	.4392	.5689	8
8	.0007	.0053	.0193	.0503	.1054	.1893	.3004	.4311	7
9	.0002	.0018	.0077	.0226	.0530	.1060	.1861	.2933	6
10		.0005	.0027	.0090	.0236	.0527	.1028	.1790	5
11		.0001	.0008	.0031	.0091	.0227	.0495	.0957	4
12			.0002	.0009	.0029	.0082	.0201	.0433	3
13				.0002	.0007	.0023	.0065	.0156	2
14					.0001	.0004	.0015	.0040	1
15							.0002	.0005	0
	15	14	13	12	11	10	9	8	p \ r

n=16, m=5

r \ p	0	1	2	3	4	5	6	7	8	
0	.7727	.5888	.4415	.3254	.2350	.1659	.1140	.0760	.0489	5
1	.2272	.4110	.5583	.6869	.5806	.4769	.3801	.2932	.2180	4
2	.0432	.1167	.2079	.3131	.4193	.5231	.6842	.5939	.5000	3
3	.0064	.0238	.0548	.1004	.1602	.2328	.3157	.4060	.5000	2
4	.0006	.0032	.0093	.0207	.0393	.0669	.1052	.1553	.2180	1
5	.	.0002	.0008	.0021	.0048	.0095	.0175	.0300	.0489	0
	16	15	14	13	12	11	10	9	8	p \ r

n=16, m=10

r \ p	0	1	2	3	4	5	6	7	8	
0	.6297	.3875	.2325	.1356	.0767	.0418	.0219	.0109	.0052	10
1	.3702	.6124	.5230	.3715	.2509	.1613	.0985	.0570	.0311	9
2	.1280	.3024	.4769	.6127	.4749	.3495	.2437	.1607	.0998	8
3	.0409	.1281	.2494	.3872	.5250	.5608	.4373	.3234	.2256	7
4	.0119	.0473	.1116	.2034	.3160	.4391	.6366	.5191	.4018	6
5	.0031	.0151	.0427	.0908	.1620	.2543	.3633	.4808	.5981	5
6	.0007	.0041	.0137	.0339	.0696	.1238	.1987	.2928	.4018	4
7	.0001	.0009	.0036	.0102	.0243	.0491	.0890	.1474	.2256	3
8		.0001	.0007	.0023	.0065	.0150	.0309	.0579	.0998	2
9			.0001	.0003	.0012	.0031	.0074	.0159	.0311	1
10					.0001	.0003	.0009	.0023	.0052	0
	16	15	14	13	12	11	10	9	8	p \ r

n=16, m=15

r \ p	0	1	2	3	4	5	6	7	8	
0	.5312	.2742	.1371	.0661	.0307	.0136	.0058	.0023	.0009	15
1	.4686	.7256	.3498	.2080	.1160	.0608	.0300	.0138	.0060	14
2	.2115	.4514	.6500	.3919	.2539	.1535	.0866	.0454	.0222	13
3	.0915	.2529	.4372	.6080	.4212	.2874	.1826	.1077	.0589	12
4	.0377	.1300	.2664	.4241	.5787	.4446	.3135	.2056	.1250	11
5	.0147	.0617	.1482	.2696	.4114	.5553	.4644	.3350	.2245	10
6	.0053	.0271	.0754	.1563	.2673	.3981	.5355	.4825	.3535	9
7	.0017	.0109	.0350	.0825	.1582	.2609	.3846	.5174	.5000	8
8	.0004	.0040	.0148	.0394	.0847	.1551	.2518	.3699	.5000	7
9		.0013	.0056	.0168	.0406	.0827	.1486	.2397	.3535	6
10		.0003	.0018	.0063	.0172	.0389	.0777	.1384	.2245	5
11			.0005	.0020	.0063	.0157	.0352	.0696	.1250	4
12			.0001	.0005	.0019	.0052	.0133	.0294	.0589	3
13				.0001	.0005	.0013	.0039	.0098	.0222	2
14					.0001	.0002	.0008	.0023	.0060	1
15							.0001	.0003	.0009	0
	16	15	14	13	12	11	10	9	8	p \ r

n=16, m=16

r \ p	0	1	2	3	4	5	6	7	8	
0	.5152	.2576	.1246	.0582	.0261	.0111	.0045	.0017	.0006	16
1	.4847	.5236	.3240	.1866	.1006	.0508	.0241	.0107	.0044	15
2	.2271	.4763	.5303	.3585	.2247	.1310	.0712	.0359	.0167	14
3	.1025	.2769	.4695	.5369	.3807	.2508	.1536	.0871	.0455	13
4	.0443	.1485	.2976	.4630	.5429	.3968	.2700	.1702	.0989	12
5	.0182	.0740	.1735	.3070	.4568	.5492	.4097	.2842	.1823	11
6	.0070	.0343	.0933	.1872	.3108	.4506	.5560	.4200	.2949	10
7	.0025	.0147	.0462	.1048	.1944	.3109	.4439	.5630	.4289	9
8	.0008	.0058	.0210	.0537	.1113	.1969	.3081	.4369	.5709	8
9	.0002	.0020	.0087	.0249	.0579	.1135	.1955	.3029	.4289	7
10		.0006	.0032	.0103	.0270	.0589	.1121	.1907	.2949	6
11		.0001	.0010	.0037	.0111	.0271	.0571	.1073	.1823	5
12			.0002	.0011	.0039	.0108	.0253	.0527	.0989	4
13				.0002	.0011	.0036	.0094	.0218	.0455	3
14					.0002	.0009	.0028	.0072	.0167	2
15						.0001	.0006	.0017	.0044	1
16							.0001	.0002	.0006	0
	16	15	14	13	12	11	10	9	8	p \ r

n=17, m=5

r \ p	0	1	2	3	4	5	6	7	8	
0	.7826	.6047	.4608	.3455	.2547	.1839	.1298	.0892	.0595	5
1	.2174	.3952	.5391	.6544	.6083	.5085	.4138	.3272	.2507	4
2	.0395	.1072	.1936	.2906	.3916	.4915	.7167	.6331	.5449	3
3	.0056	.0209	.0481	.0886	.1420	.2076	.2833	.3667	.4549	2
4	.0006	.0027	.0077	.0173	.0328	.0562	.0886	.1314	.1853	1
5		.0002	.0006	.0017	.0037	.0075	.0137	.0235	.0382	0
	17	16	15	14	13	12	11	10	9	p \ r

n=17, m=10

r \ p	0	1	2	3	4	5	6	7	8	
0	.6428	.4049	.2491	.1494	.0872	.0493	.0268	.0140	.0070	10
1	.3571	.5951	.5481	.3985	.2768	.1837	.1164	.0703	.0403	9
2	.1189	.2837	.4519	.6015	.5094	.3853	.2777	.1903	.1236	8
3	.0365	.1156	.2277	.3577	.4906	.6004	.4814	.3682	.2675	7
4	.0101	.0409	.0977	.1805	.2838	.3996	.5185	.5696	.4563	6
5	.0024	.0125	.0357	.0771	.1391	.2214	.3204	.4303	.6527	5
6	.0004	.0032	.0109	.0275	.0568	.1025	.1666	.2490	.3472	4
7		.0007	.0027	.0079	.0187	.0384	.0705	.1181	.1836	3
8		.0001	.0005	.0017	.0046	.0110	.0229	.0433	.0757	2
9			.0001	.0002	.0007	.0021	.0051	.0110	.0218	1
10						.0002	.0006	.0014	.0033	0
	17	16	15	14	13	12	11	10	9	p \ r

n=17, m=15

r \ p	0	1	2	3	4	5	6	7	8	
0	.5455	.2897	.1495	.0748	.0361	.0167	.0075	.0032	.0012	15
1	.4544	.7100	.3738	.2295	.1327	.0726	.0376	.0183	.0083	14
2	.1987	.4296	.6261	.4229	.2832	.1779	.1050	.0580	.0299	13
3	.0832	.2333	.4094	.5770	.4587	.3239	.2145	.1328	.0766	12
4	.0332	.1160	.2418	.3908	.5412	.4881	.3573	.2450	.1568	11
5	.0125	.0532	.1301	.2404	.3727	.5118	.5144	.3861	.2714	10
6	.0044	.0225	.0639	.1345	.2337	.3547	.4855	.5389	.4122	9
7	.0014	.0087	.0286	.0683	.1329	.2238	.3359	.4610	.5630	8
8	.0004	.0030	.0116	.0313	.0682	.1275	.2109	.3162	.4369	7
9	.0001	.0009	.0042	.0128	.0312	.0650	.1188	.1956	.2949	6
10		.0002	.0013	.0046	.0125	.0291	.0591	.1072	.1776	5
11			0003	.0014	.0043	0112	0254	0509	0931	4
12				.0003	.0012	.0035	.0091	.0202	.0410	3
13					.0002	.0008	.0026	.0063	.0143	2
14						.0001	.0006	.0014	.0035	1
15							.0001	.0002	.0004	0
	17	16	15	14	13	12	11	10	9	p \ r

n=17, m=17

r \ p	0	1	2	3	4	5	6	7	8	
0	.5143	.2571	.1247	.0584	.0264	.0114	.0047	.0019	.0007	17
1	.4856	.5220	.3234	.1866	.1015	.0516	.0248	.0113	.0047	16
2	.2285	.4778	.5286	.3575	.2253	.1321	.0725	.0372	.0177	15
3	.1038	.2791	.4713	.5343	.3799	.2513	.1550	.0891	.0474	14
4	.0454	.1509	.3004	.4655	.5404	.3957	.2705	.1723	.1017	13
5	.0190	.0761	.1766	.3108	.4595	.5459	.4081	.2852	.1851	12
6	.0073	.0359	.0961	.1916	.3151	.4539	.5517	.4185	.2962	11
7	.0026	.0158	.0484	.1091	.1996	.3163	.4480	.5583	.4272	10
8	.0008	.0064	.0225	.0572	.1164	.2031	.3146	.4416	.5651	9
9	.0002	.0024	.0096	.0275	.0621	.1200	.2035	.3106	.4347	8
10		.0008	.0037	.0120	.0301	.0644	.1202	.2003	.3045	7
11		.0002	.0012	.0047	.0130	.0311	.0640	.1170	.1942	6
12			.0003	.0016	.0049	.0133	.0303	.0609	.1109	5
13				.0004	.0015	.0049	.0124	.0276	.0553	4
14					.0003	.0015	.0042	.0105	.0232	3
15						.0003	.0011	.0032	.0077	2
16							.0002	.0007	.0018	1
17								.0001	.0002	0
	17	16	15	14	13	12	11	10	9	p \ r

n=18, m=5

r \ p	0	1	2	3	4	5	6	7	8	9	
0	.7918	.6194	.4788	.3648	.2735	.2016	.1456	.1028	.0706	.0471	5
1	.2082	.3803	.5207	.6352	.7262	.7984	.4454	.3597	.2826	.2153	4
2	.0361	.0987	.1787	.2704	.3663	.4624	.5545	.6402	.7174	.5000	3
3	.0048	.0183	.0425	.0784	.1264	.1857	.2548	.3319	.4146	.5000	2
4	.0004	.0022	.0065	.0144	.0276	.0474	.0750	.1117	.1584	.2153	1
5		.0001	.0005	.0013	.0029	.0059	.0108	.0186	.0303	.0471	0
	18	17	16	15	14	13	12	11	10	9	p \ r

n=18, m=10

r \ p	0	1	2	3	4	5	6	7	8	9	
0	.6551	.4212	.2652	.1632	.0979	.0571	.0322	.0176	.0092	.0046	10
1	.3448	.5787	.7347	.4244	.3019	.2061	.1349	.0847	.0507	.0288	9
2	.1108	.2667	.4287	.5755	.6980	.4195	.3110	.2205	.1490	.0955	8
3	.0328	.1047	.2084	.3307	.4586	.5805	.6895	.4112	.3093	.2212	7
4	.0088	.0356	.0860	.1604	.2554	.3637	.4782	.5887	.6902	.3999	6
5	.0021	.0104	.0301	.0656	.1199	.1930	.2836	.3848	.4922	.6001	5
6	.0004	.0025	.0088	.0223	.0468	.0852	.1409	.2120	.2992	.3999	4
7		.0004	.0020	.0061	.0147	.0303	.0570	.0951	.1491	.2212	3
8			.0003	.0012	.0035	.0082	.0172	.0327	.0572	.0955	2
9				.0001	.0005	.0015	.0036	.0077	.0148	.0288	1
10						.0001	.0004	.0009	.0014	.0046	0
	18	17	16	15	14	13	12	11	10	9	p \ r

n=18, m=11

r \ p	0	1	2	3	4	5	6	7	8	9	
0	.6333	.3931	.2387	.1414	.0816	.0457	.0248	.0129	.0065	.0031	11
1	.3666	.6068	.7613	.3808	.2611	.1713	.1076	.0646	.0369	.0200	10
2	.1264	.2980	.4696	.6192	.4855	.3625	.2583	.1755	.1130	.0689	9
3	.0406	.1264	.2452	.3799	.5145	.5711	.4520	.3415	.2452	.1668	8
4	.0120	.0472	.1106	.2004	.3096	.4288	.5480	.5338	.4214	.3166	7
5	.0032	.0155	.0433	.0911	.1606	.2500	.3543	.4663	.5786	.5000	6
6	.0007	.0044	.0146	.0355	.0712	.1248	.1973	.2870	.3899	.5000	5
7	.0001	.0011	.0041	.0116	.0265	.0524	.0926	.1498	.2248	.3166	4
8		.0002	.0009	.0031	.0080	.0179	.0355	.0641	.1069	.1668	3
9			.0001	.0006	.0018	.0047	.0105	.0212	.0396	.0689	2
10				.0001	.0003	.0008	.0021	.0048	.0102	.0200	1
11						.0001	.0002	.0006	.0014	.0031	0
	18	17	16	15	14	13	12	11	10	9	p \ r

n=18, m=12

r \ p	0	1	2	3	4	5	6	7	8	9	
0	.6129	.3677	.2156	.1232	.0684	.0369	.0192	.0096	.0046	.0021	12
1	.3871	.6322	.4927	.3422	.2264	.1430	.0862	.0496	.0271	.0140	11
2	.1419	.3279	.5072	.6578	.4349	.3132	.2145	.1396	.2860	.0500	10
3	.0489	.1486	.2814	.4262	.6102	.5106	.3895	.2824	.1940	.1258	9
4	.0157	.0600	.1366	.2409	.4075	.4893	.6105	.4591	.3475	.2489	8
5	.0046	.0217	.0585	.1193	.2489	.3076	.4231	.5408	.5249	.4112	7
6	.0012	.0070	.0220	.0516	.1451	.1692	.2581	.3622	.4752	.5887	6
7	.0003	.0020	.0072	.0193	.0874	.0804	.1365	.2117	.3048	.4112	5
8		.0005	.0020	.0061	.0152	.0323	.0613	.1055	.1679	.2490	4
9		.0001	.0005	.0016	.0045	.0106	.0226	.0432	.0766	.1258	3
10			.0001	.0003	.0010	.0027	.0064	.0138	.0273	.0500	2
11					.0002	.0005	.0013	.0031	.0068	.0140	1
12							.0001	.0004	.0009	.0021	0
	18	17	16	15	14	13	12	11	10	9	p \ r

n=18, m=14

r \ p	0	1	2	3	4	5	6	7	8	9	
0	.5758	.3239	.1776	.0947	.0490	.0245	.0118	.0054	.0024	.0010	14
1	.4242	.6761	.4262	.2776	.1715	.1007	.0563	.0298	.0150	.0071	13
2	.1723	.3836	.5739	.4899	.3484	.2341	.1487	.0893	.0505	.0268	12
3	.0667	.1935	.3509	.5101	.6515	.4048	.2874	.1927	.1216	.0720	11
4	.0245	.0886	.1916	.3213	.4610	.5952	.4533	.3348	.2333	.1526	10
5	.0084	.0371	.0943	.1816	.2933	.4191	.5467	.4973	.3785	.2716	9
6	.0027	.0142	.0419	.0922	.1676	.2661	.3809	.5027	.5390	.4202	8
7	.0008	.0049	.0168	.0419	.0856	.1513	.2387	.3443	.4610	.5799	7
8	.0002	.0015	.0060	.0169	.0387	.0763	.1331	.2109	.3082	.4201	6
9	.0001	.0004	.0019	.0060	.0153	.0336	.0650	.1137	.1823	.2715	5
10		.0001	.0005	.0018	.0051	.0127	.0272	.0527	.0932	.1526	4
11			.0001	.0004	.0014	.0039	.0094	.0202	.0397	.0720	3
12				.0001	.0003	.0010	.0025	.0061	.0133	.0268	2
13						.0002	.0005	.0013	.0031	.0071	1
14								.0001	.0004	.0010	0
	18	17	16	15	14	13	12	11	10	9	p \ r

n=18, m=15

r \ p	0	1	2	3	4	5	6	7	8	9	
0	.5589	.3049	.1619	.0836	.0418	.0202	.0093	.0041	.0018	.0007	15
1	.4409	.6949	.3970	.2508	.1499	.0850	.0457	.0233	.0113	.0051	14
2	.1869	.4091	.6028	.4526	.3120	.2027	.1241	.0717	.0390	.0198	13
3	.0758	.2155	.3834	.5474	.4941	.3597	.2465	.1591	.0965	.0546	12
4	.0292	.1036	.2195	.3600	.5058	.5292	.3995	.2845	.1905	.1193	11
5	.0106	.0458	.1141	.2143	.3377	.4707	.5605	.4350	.3187	.2190	10
6	.0035	.0186	.0540	.1157	.2045	.3153	.4396	.5903	.4682	.3501	9
7	.0010	.0068	.0232	.0565	.1120	.1915	.2933	.4097	.6199	.5000	8
8	.0002	.0022	.0090	.0248	.0552	.1047	.1768	.2699	.3800	.5000	7
9		.0006	.0031	.0097	.0242	.0510	.0948	.1595	.2451	.3501	6
10		.0001	.0009	.0033	.0093	.0218	.0448	.0829	.1402	.2190	5
11			.0002	.0009	.0030	.0080	.0181	.0372	.0694	.1193	4
12				.0002	.0008	.0024	.0060	.0138	.0287	.0546	3
13					.0001	.0006	.0015	.0040	.0093	.0198	2
14						.0001	.0002	.0008	.0021	.0051	1
15								.0001	.0002	.0007	0
	18	17	16	15	14	13	12	11	10	9	p \ r

n=18, m=16

r \ p	0	1	2	3	4	5	6	7	8	9	
0	.5429	.2874	.1481	.0740	.0359	.0167	.0075	.0032	.0013	.0005	16
1	.4571	.7126	.3701	.2269	.1315	.0721	.0375	.0184	.0086	.0037	15
2	.2016	.4339	.6298	.4179	.2797	.1758	.1041	.0580	.0303	.1048	14
3	.0855	.2379	.4149	.5821	.4526	.3192	.2117	.1317	.0768	.0417	13
4	.0347	.1200	2478	.3976	.5475	.4806	.3515	.2416	.1556	.0935	12
5	.0134	.0560	.1354	.2478	.3810	.5193	.5054	.3792	.2675	.1763	11
6	.0049	.0243	.0680	.1412	.2427	.3644	.4946	.5283	.4041	.2902	10
7	.0017	.0098	.0313	.0736	.1412	.2342	.3474	.4716	.5505	.4272	9
8	.0005	.0036	.0132	.0349	.0748	.1372	.2232	.3296	.4495	.5728	8
9	.0001	.0012	.0050	.0150	.0358	.0727	.1300	.2098	.3108	.4272	7
10		.0004	.0017	.0058	.0153	.0345	.0679	.1202	.1943	.2902	6
11		.0001	.0005	.0020	.0058	.0144	.0313	.0609	.1080	.1763	5
12			.0001	.0006	.0019	.0052	.0124	.0267	.0521	.0935	4
13				.0001	.0005	.0015	.0041	.0097	.0210	.0417	3
14					.0001	.0004	.0012	.0028	.0062	.0148	2
15						.0001	.0002	.0006	.0015	.0037	1
16								.0001	.0002	.0005	0
	18	17	16	15	14	13	12	11	10	0	p \ r

n=18, m=17

r\p	0	1	2	3	4	5	6	7	8	9	
0	.5278	.2714	.1357	.0658	.0308	.0139	.0060	.0025	.0010	.0004	17
1	.4722	.7286	.3455	.2056	.1154	.0613	.0308	.0145	.0065	.0027	16
2	.2159	.4571	.6545	.3861	.1507	.1527	.0874	.0469	.0237	.0111	15
3	.0952	.2597	.4448	.6139	.4141	.2837	.1818	.1091	.0613	0320	14
4	.0404	.1364	.2756	.4335	.5859	.4361	.3088	.2049	.1272	.0734	13
5	.0164	.0667	.1572	.2811	.4226	.5639	.4541	.3295	.2240	.1418	12
6	.0063	.0305	.0829	.1679	.2811	.4115	.5459	.4703	.3472	.2396	11
7	.0023	.0130	.0405	.0924	.1722	.1774	.4006	.5297	.4854	.3625	10
8	.0008	.0052	.0182	.0468	.0969	.1722	.2715	.3889	.5145	.5000	9
9	.0003	.0019	.0076	.0217	.0499	.0978	.1688	.2632	.3763	.5000	8
10	.0001	.0006	.0029	.0091	.0233	.0504	.0955	.1626	.2525	.3626	7
11		.0002	.0010	.0034	.0098	.0233	.0486	.0906	.1536	.2396	6
12		.0001	.0003	.0011	.0036	.0095	.0218	.0448	.0832	.1419	5
13			.0001	.0003	.0012	.0034	.0085	.0192	.0392	.0734	4
14				.0001	.0003	.0010	.0027	.0069	.0155	.0320	3
15					.0001	.0002	.0007	.0019	.0048	.0111	2
16							.0001	.0004	.0012	.0027	1
17									.0001	.0004	0
	18	17	16	15	14	13	12	11	10	9	p\r

n=18, m=18

r\p	0	1	2	3	4	5	6	7	8	9	
0	.5135	.2567	.1247	.0587	.0267	.0117	.0049	.0020	.0007	.0002	18
1	.4864	.5208	.3227	.1867	.1017	.0524	.0255	.0117	.0050	.0020	17
2	.2297	.4789	.5267	.3567	.2251	.1330	.0737	.0382	.0185	.0084	16
3	.1050	.2809	.4730	.5323	.3786	.2517	.1563	.0907	.0490	.0247	15
4	.0463	.1529	.3030	.4676	.5375	.3947	.2710	.1739	.1039	.0577	14
5	.0196	.0779	.1796	.3140	.4623	.5430	.4069	.2858	.1872	.1141	13
6	.0079	.0372	.0989	.1953	.3193	.4569	.5483	.4170	.2970	.1973	12
7	.0030	.0167	.0507	.1126	.2045	.3210	.4513	.5540	.4254	.3060	11
8	.0010	.0070	.0241	.0602	.1213	.2091	.3201	.4459	.5599	.4330	10
9	.0003	.0027	.0106	.0297	.0664	.1258	.2103	.3175	.4397	.5668	9
10		.0009	.0042	.0134	.0333	.0694	.1271	.2088	.3127	.4330	8
11		.0002	.0015	.0055	.0152	.0348	.0700	.1256	.2044	.3060	7
12			.0004	.0020	.0062	.0157	.0347	.0683	.1212	.1973	6
13				.0006	.0022	.0062	.0152	.0330	.0641	.1141	5
14				.0001	.0006	.0021	.0057	.0138	.0295	.0577	4
15					.0001	.0006	.0017	.0048	.0114	.0247	3
16						.0001	.0003	.0013	.0035	.0084	2
17								.0002	.0008	.0020	1
18									.0001	.0002	0
	18	17	16	15	14	13	12	11	10	9	p\r

n=19, m=5

r\p	0	1	2	3	4	5	6	7	8	9	
0	.8000	.6334	.4957	.3830	.2919	.2188	.1613	.1165	.0822	.0565	5
1	.1999	.3666	.5043	.6169	.6566	.5644	.4749	.3906	.3134	.2449	4
2	.0332	.0912	.1663	.2521	.3434	.4355	.5251	.6947	.6217	.5410	3
3	.0042	.0161	.0375	.0698	.1130	.1667	.2299	.3011	.3782	.4590	2
4	.0003	.0018	.0054	.0122	.0234	.0402	.0639	.0956	.1360	.1857	1
5		.0001	.0004	.0010	.0023	.0047	.0086	.0149	.0242	.0377	0
	19	18	17	16	15	14	13	12	11	10	p\r

n=19, m=10

r \ p	0	1	2	3	4	5	6	7	8	9	
0	.6665	.4367	.2808	.1768	.1088	.0653	.0381	.0215	.0117	.0061	10
1	.3332	.5631	.5928	.4488	.3264	.2285	.1540	.0998	.0620	.0368	9
2	.1034	.2511	.4071	.5511	.5712	.4520	.3436	.2507	.1752	.1169	8
3	.0295	.0951	.1911	.3063	.4287	.5478	.5603	.4519	.3500	.2593	7
4	.0076	.0311	.0759	.1431	.2300	.3311	.4396	.6557	.5538	.4499	6
5	.0017	.0087	.0255	.0562	1036	1686	2500	3441	4461	.6501	5
6	.0003	.0020	.0071	.0183	.0386	.0711	.1182	.1810	.2589	.3499	4
7		.0003	.0015	.0048	.0115	.0241	.0450	.0770	.1225	.1831	3
8			.0002	.0009	.0026	.0062	.0130	.0250	.0445	.0742	2
9				.0001	.0004	.0011	.0025	.0055	.0111	.0208	1
10						.0001	.0002	.0005	.0014	.0030	0
	19	18	17	16	15	14	13	12	11	10	p \ r

n=19, m=14

r \ p	0	1	2	3	4	5	6	7	8	9	
0	.5882	.3387	.1905	.1045	.0557	.0288	.0144	.0069	.0032	.0014	14
1	.4118	.6613	.4486	.2995	.1902	.1153	.0667	.0368	.0193	.0096	13
2	.1622	.3650	.5514	.7005	.3775	.2610	.1713	.1068	.0631	.0352	12
3	.0608	.1786	.3277	.4820	.6225	.4403	.3219	.2233	.1467	.0909	11
4	.0216	.0791	.1734	.2946	.4282	.5598	.4945	.3766	.2721	.1858	10
5	.0072	.0320	.0825	.1611	.2638	.3823	.5054	.5439	.4274	.3187	9
6	.0022	.0118	.0354	.0789	.1455	.2343	.3404	.4561	.5726	.4760	8
7	.0006	.0039	.0136	.0345	.0715	.1281	.2053	.3008	.4095	.5240	7
8	.0002	.0012	.0047	.0134	.0311	.0619	.1097	.1766	.2624	.3641	6
9		.0003	.0014	.0045	.0118	.0261	.0512	0908	.1480	.2243	5
10		.0001	.0004	.0013	.0038	.0094	.0204	.0399	.0717	.1194	4
11			.0001	.0003	.0010	.0028	.0067	.0145	.0288	.0530	3
12				.0001	.0002	.0006	.0017	.0041	.0090	.0185	2
13						.0001	.0003	.0008	.0020	.0045	1
14								.0001	.0002	.0006	0
	19	18	17	16	15	14	13	12	11	10	p \ r

n=19, m=15

r \ p	0	1	2	3	4	5	6	7	8	9	
0	.5714	.3194	.1742	.0925	.0477	.0239	.0115	.0053	.0024	.0010	15
1	.4284	.6805	.4192	.2716	.1671	.0980	.0547	.0291	.0147	.0070	14
2	.1763	.3902	.5808	.4806	.3401	.2277	.1444	.0867	.0493	.0259	13
3	.0693	.1997	.3595	.5193	.5275	.3943	.2789	.1866	.1180	.0697	12
4	.0259	.0932	.1997	.3319	.4725	.5672	.4403	.3240	.2255	.1474	11
5	.0091	.0399	.1005	.1914	.3059	.4328	.6031	.4817	.3653	.2613	10
6	.0030	.0157	.0460	.0998	.1791	.2806	.3968	.5180	.5206	.4037	9
7	.0009	.0056	.0191	.0470	.0946	.1644	.2553	.3627	.4793	.5579	8
8	.0002	.0018	.0071	.0198	.0448	.0865	.1478	.2296	.3296	.4419	7
9		.0005	.0023	.0074	.0188	.0405	.0761	.1298	.2035	.2963	6
10		.0001	.0006	.0024	.0069	.0166	.0343	.0644	.1109	.1764	5
11			.0001	.0006	.0021	.0059	.0132	.0274	.0520	.0910	4
12				.0001	.0005	.0016	.0042	.0096	.0203	.0392	3
13					.0001	.0003	.0010	.0026	.0062	.0133	2
14							.0001	.0004	.0013	.0032	1
15									.0001	.0004	0
	19	18	17	16	15	14	13	12	11	10	p \ r

n=19, m=16

r \ p	0	1	2	3	4	5	6	7	8	9	
0	.5556	.3016	.1597	.0823	.0411	.0199	.0093	.0042	.0018	.0007	16
1	.4445	.6984	.3919	.2468	.1473	.0836	.0452	.0232	.0113	.0052	15
2	.1905	.4146	.6081	.4457	.3065	.1989	.1220	.0708	.0388	.0200	14
3	.0784	.2210	.3904	.5542	.4858	.3526	.2416	.1562	.0951	.0544	13
4	.0309	.1081	.2265	.3685	.5142	.6474	.3910	.2783	.1867	.1177	12
5	.0116	.0490	.1200	.2228	.3477	.4809	.6090	.4248	.3109	.2143	11
6	.0041	.0206	.0583	.1229	.2145	.3272	.4512	.5752	.4559	.3408	10
7	.0014	.0080	.0259	.0619	.1206	.2032	.3066	.4234	.5441	.4854	9
8	.0004	.0029	.0105	.0283	.0615	.1147	.1898	.2853	.3962	.5145	8
9	.0001	.0009	.0039	.0117	.0283	.0584	.1061	.1744	.2631	.3690	7
10		.0003	.0013	.0043	.0116	.0265	.0530	.0955	.1573	.2396	6
11		.0001	.0004	.0014	.0042	.0106	.0233	.0461	.0832	.1384	5
12			.0001	.0004	.0013	.0036	.0088	.0192	.0380	.0694	4
13				.0001	.0003	.0010	.0028	.0066	.0145	.0291	3
14					.0001	.0002	.0007	.0018	.0043	.0096	2
15							.0001	.0003	.0009	.0022	1
16									.0001	.0003	0
	19	18	17	16	15	14	13	12	11	10	p \ r

n=19, m=17

r \ p	0	1	2	3	4	5	6	7	8	9	
0	.5405	.2853	.1467	.0734	.0356	.0167	.0075	.0033	.0014	.0005	17
1	.4595	.7148	.3668	.2245	.1301	.0716	.0374	.0186	.0087	.0039	16
2	.2042	.4376	.6332	.4135	.2763	.1740	.1033	.0579	.0306	.0152	15
3	.0875	.2420	.4198	.5865	.4470	.3152	.2092	.1308	.0768	.0423	14
4	.0360	.1234	.2531	.4037	.5530	.4741	.3466	.2387	.1545	.0937	13
5	.0142	.0586	.1401	.2543	.3882	.5259	.4976	.3733	.2640	.1751	12
6	.0053	.0260	.0716	.1472	.2505	.3729	.5024	.5192	.3972	.2861	11
7	.0019	.0107	.0338	.0784	.1485	.2434	.3574	.4809	.5399	.4190	10
8	.0006	.0041	.0147	.0383	.0807	.1458	.2339	.3413	.4602	.5602	9
9	.0002	.0015	.0059	.0171	.0400	.0797	.1400	.2224	.3243	.4398	8
10	.0001	.0005	.0021	.0069	.0179	.0394	.0760	.1318	.2088	.3061	7
11		.0001	.0007	.0022	.0072	.0175	.0370	.0701	.1212	.1931	6
12			.0002	.0008	.0025	.0068	.0159	.0330	.0624	.1085	5
13				.0002	.0008	.0023	.0059	.0134	.0278	.0530	4
14					.0002	.0006	.0018	.0045	.0103	.0217	3
15						.0001	.0004	.0012	.0030	.0070	2
16							.0001	.0002	.0006	.0016	1
17									.0001	.0002	0
	19	18	17	16	15	14	13	12	11	10	p \ r

n=19, m=18

r\p	0	1	2	3	4	5	6	7	8	9	
0	.5263	.2703	.1351	.0656	.0309	.0140	.0061	.0026	.0010	.0004	18
1	.4737	.7297	.3436	.2046	.1152	.0614	.0311	.0149	.0068	.0029	17
2	.2177	.4595	.6564	.3837	.2494	.1524	.0877	.0771	.0243	.0116	16
3	.0968	.2626	.4479	.6163	.4111	.2817	.1814	.1720	.0622	.0330	15
4	.0415	.1390	.2794	.4373	.5889	.4323	.3068	.2046	.1279	.0748	14
5	.0171	.0688	.1609	.2858	.4273	.5678	.4499	.3273	.2236	.1430	13
6	.0067	.0319	.0860	.1726	.2868	.4172	.5501	.4654	.3445	.2394	12
7	.0025	.0139	.0428	.0965	.1780	.2843	.4070	.5345	.4797	.3596	11
8	.0009	.0057	.0197	.0499	.1021	.1792	.2794	.3963	.5203	.4933	10
9	.0003	.0021	.0084	.0238	.0539	.1040	.1771	.2724	.3851	.5067	9
10	.0001	.0007	.0033	.0104	.0261	.0553	.1029	.1723	.2635	.3729	8
11		.0002	.0012	.0041	.0114	.0267	.0544	.0993	.1650	.2526	7
12		.0001	.0004	.0015	.0045	.0116	.0258	.0516	.0934	.1553	6
13			.0001	.0005	.0016	.0044	.0108	.0237	.0469	.0852	5
14				.0001	.0005	.0015	.0039	.0094	.0205	.0407	4
15					.0001	.0004	.0012	.0031	.0075	.0163	3
16						.0001	.0003	.0008	.0022	.0052	2
17								.0001	.0004	.0012	1
18									.0001	.0001	0
	19	18	17	16	15	14	13	12	11	10	p\r

n=19, m=19

r\p	0	1	2	3	4	5	6	7	8	9	
0	.5130	.2565	.1247	.0589	.0269	.0119	.0050	.0020	.0008	.0003	19
1	.4869	.5198	.3222	.1868	.1021	.0529	.0259	.0120	.0053	.0022	18
2	.2304	.4799	.5254	.3561	.2252	.1337	.0745	.0391	.0193	.0089	17
3	.1057	.2824	.4744	.5305	.3828	.2518	.1572	.0921	.0505	.0258	16
4	.0468	.1545	.3051	.4693	.5354	.3936	.2713	.1753	.1060	.0597	15
5	.0199	.0793	.1820	.3167	.4644	.5403	.4057	.2863	.1892	.1167	14
6	.0081	.0383	.1012	.1986	.3226	.4595	.5452	.4158	.2980	.1998	13
7	.0031	.0174	.0525	.1159	.2085	.3251	.4546	.5505	.4242	.3071	12
8	.0011	.0074	.0254	.0630	.1253	.2141	.3251	.4493	.5559	.4315	11
9	.0003	.0029	.0114	.0318	.0698	.1309	.2163	.3231	.4440	.5619	10
10		.0010	.0047	.0148	.0359	.0739	.1332	.2158	.3196	.4380	9
11		.0003	.0017	.0063	.0169	.0383	.0754	.1329	.2130	.3142	8
12			.0005	.0024	.0072	.0180	.0389	.0747	.1301	.2076	7
13			.0001	.0008	.0027	.0076	.0180	.0379	.0719	.1247	6
14				.0002	.0009	.0028	.0073	.0170	.0354	.0669	5
15					.0002	.0009	.0025	.0066	.0151	.0313	4
16						.0002	.0007	.0021	.0054	.0123	3
17							.0001	.0005	.0015	.0038	2
18									.0003	.0008	1
19										.0001	0
	19	18	17	16	15	14	13	12	11	10	p\r

n=20, m=5

r\p	0	1	2	3	4	5	6	7	8	9	10	
0	.8077	.6461	.5115	.4003	.3093	.2357	.1767	.1302	.0940	.0664	.0456	5
1	.1922	.3538	.4884	.5996	.6776	.5892	.5022	.4193	.3429	.2738	.2130	4
2	.0307	.0846	.1548	.2357	.3224	.4107	.4975	.7258	.6541	.5782	.5000	3
3	.0038	.0144	.0335	.0624	.1014	.1502	.2081	.2737	.3455	.4217	.5000	2
4	.0003	.0016	.0046	.0104	.0200	.0344	.0549	.0822	.1173	.1608	.2130	1
5		.0001	.0003	.0008	.0019	.0038	.0070	.0120	.0195	.0304	.0456	0
	20	19	18	17	16	15	14	13	12	11	10	p\r

n=20, m=10

r \ p	0	1	2	3	4	5	6	7	8	9	10	
0	.6774	.4516	.2959	.1902	.1197	.0737	.0442	.0258	.0146	.0079	.0041	10
1	.3225	.5483	.6129	.4720	.3500	.2506	.1731	.1155	.0742	.0457	.0270	9
2	.0967	.2369	.3870	.5278	.5987	.4827	.3749	.2806	.2020	.1394	.0921	8
3	.0266	.0867	.1757	.2840	.4011	.5172	.6248	.4903	.3894	.2973	.2175	7
4	.0066	.0274	.0673	.1279	.2076	.3019	.4046	.5094	.5965	.4968	.3982	6
5	.0014	.0074	.0218	.0483	.0899	.1478	.2211	.3076	.4032	.5030	.6015	5
6	.0002	.0017	.0059	.0151	.0321	.0597	.1000	.1546	.2237	.3058	.3982	4
7		.0003	.0013	.0038	.0092	.0193	.0363	.0625	.1005	.1518	.2175	3
8			.0002	.0007	.0020	.0047	.0100	.0192	.0345	.0579	.0921	2
9				.0001	.0003	.0008	.0019	.0040	.0081	.0152	.0270	1
10						.0001	.0002	.0004	.0010	.0021	.0041	0
	20	19	18	17	16	15	14	13	12	11	10	p \ r

n=20, m=14

r \ p	0	1	2	3	4	5	6	7	8	9	10	
0	.6001	.3529	.2032	.1143	.0627	.0334	.0173	.0087	.0042	.0019	.0008	14
1	.3998	.6470	.4699	.3208	.2089	.1303	.0778	.0445	.0243	.0127	.0063	13
2	.1527	.3476	.5300	.5445	.4056	.2876	.1944	.1252	.0768	.0447	.0247	12
3	.0554	.1651	.3063	.4555	.5944	.4741	.3558	.2543	.1730	.1116	.0681	11
4	.0190	.0709	.1572	.2704	.3977	.5259	.5333	.4170	.3109	.2203	.1479	10
5	.0061	.0277	.0724	.1431	.2374	.3483	.4667	.5868	.4740	.3653	.2674	9
6	.0018	.0099	.0299	.0677	.1264	.2063	.3040	.4131	.5260	.5283	.4185	8
7	.0005	.0032	.0111	.0285	.0598	.1087	.1766	.2626	.3630	.4716	.5815	7
8	.0001	.0009	.0036	.0106	.0250	.0505	.0906	.1479	.2232	.3147	.4185	6
9		.0002	.0010	.0035	.0091	.0204	.0404	.0727	.1202	.1850	.2674	5
10			.0002	.0010	.0028	.0070	.0154	.0304	.0554	.0935	.1479	4
11				.0002	.0007	.0020	.0048	.0105	.0210	.0392	.0681	3
12					.0001	.0004	.0012	.0028	.0062	.0128	.0247	2
13						.0001	.0002	.0005	.0013	.0029	.0063	1
14								.0001	.0001	.0004	.0008	0
	20	19	18	17	16	15	14	13	12	11	10	p \ r

n=20, m=15

r \ p	0	1	2	3	4	5	6	7	8	9	10	
0	.5833	.3333	.1863	.1016	.0540	.0278	.0139	.0067	.0031	.0014	.0006	15
1	.4166	.6667	.4403	.2921	.1846	.1114	.0643	.0355	.0187	.0094	.0045	14
2	.1666	.3726	.5596	.5072	.3674	.2526	.1651	.1028	.0607	.0340	.0180	13
3	.0637	.1854	.3374	.4926	.5586	.4274	.3108	.2148	.1408	.0874	.0512	12
4	.0232	.0840	.1821	.3062	.4413	.5723	.4789	.3627	.2609	.1780	.1146	11
5	.0080	.0350	.0889	.1712	.2774	.3975	.5207	.5254	.4103	.3048	.2142	10
6	.0026	.0134	.0394	.0864	.1572	.2496	.3580	.4742	.5688	.4558	.3470	9
7	.0008	.0047	.0158	.0393	.0802	.1411	.2224	.3209	.4406	.6111	.5000	8
8	.0002	.0015	.0057	.0160	.0366	.0714	.1239	.1955	.2851	.3886	.5000	7
9		.0004	.0018	.0058	.0148	.0320	.0612	.1059	.1687	.2497	.3470	6
10		.0001	.0005	.0018	.0052	.0125	.0264	.0502	.0877	.1417	.2142	5
11			.0001	.0005	.0016	.0041	.0097	.0203	.0391	.0692	.1146	4
12				.0001	.0004	.0011	.0029	.0067	.0144	.0280	.0512	3
13					.0001	.0002	.0007	.0017	.0041	.0088	.0180	2
14							.0001	.0003	.0008	.0019	.0045	1
15									.0001	.0002	.0006	0
	20	19	18	17	16	15	14	13	12	11	10	p \ r

n=20, m=16

r \ p	0	1	2	3	4	5	6	7	8	9	10	
0	.5676	.3153	.1712	.0906	.0467	.0233	.0113	.0053	.0024	.0010	.0004	16
1	.4324	.6847	.4128	.1665	.1634	.0956	.0535	.0285	.0145	.0070	.0032	15
2	.1802	.3964	.5872	.4724	.3328	.2221	.1407	.0846	.0483	.0261	.0132	14
3	.0721	.2056	.3675	.5277	.5173	.3850	.2716	.1815	.1149	.0687	.0386	13
4	.0276	.0977	.2073	.3416	.4827	.5551	.4291	.3148	.2189	.1438	.0889	12
5	.0100	.0429	.1065	.2006	.3173	.4449	.5890	.4684	.3540	.2535	.1712	11
6	.0034	.0174	.0501	.1072	.1897	.2937	.4110	.5316	.5048	.3906	.2861	10
7	.0011	.0066	.0216	.0521	1031	.1764	.2703	.3792	.4952	.5398	.4256	9
8	.0003	.0023	.0085	.0230	.0508	.0960	.1613	.2466	.3483	.4602	.5743	8
9	.0001	.0007	.0030	.0092	.0225	.0470	.0868	.1449	.2224	.3175	.4256	7
10		.0002	.0010	.0033	.0089	.0205	.0416	.0760	.1272	.1973	.2861	6
11		.0001	.0003	.0010	.0031	.0078	.0175	.0350	.0641	.1085	.1712	5
12			.0001	.0003	.0009	.0025	.0063	.0138	.0278	.0516	.0889	4
13				.0001	.0002	.0007	.0019	.0045	.0100	.0204	.0386	3
14					.0001	.0001	.0004	.0012	.0028	.0063	.0132	2
15							.0001	.0002	.0006	.0014	.0032	1
16									.0001	.0002	.0004	0
	20	19	18	17	16	15	14	13	12	11	10	p \ r

n=20, m=17

r \ p	0	1	2	3	4	5	6	7	8	9	10	
0	.5526	.2987	.1577	.0811	.0405	.0197	.0092	.0042	.0018	.0008	.0003	17
1	.4474	.7013	.3874	.2432	.1450	.0823	.0446	.0230	.0113	.0053	.0023	16
2	.1935	.4192	.2126	.4398	.3016	.1955	.1200	.0699	.0385	.0200	.0098	15
3	.0806	.2257	.3964	.5602	.4784	.3464	.2371	.1535	.0939	.0541	.0293	14
4	.0322	.1119	.2326	.3759	.5216	.5103	.3835	.2727	.1833	.1161	.0691	13
5	.0123	.0516	.1251	.2303	.3565	.4897	.5385	.4158	.3042	.2102	.1366	12
6	.0045	.0221	.0620	.1293	.2233	.3374	.4615	.5647	.4453	.3328	.2347	11
7	.0015	.0088	.0283	.0666	.1282	.2134	.3184	.4353	.5899	.4730	.3595	10
8	.0005	.0033	.0119	.0315	.0673	.1235	.2015	.2989	.4101	.6149	.5000	9
9	.0001	.0011	.0046	.0136	.0322	.0650	.1162	.1877	.2787	.3851	.5000	8
10		.0003	.0016	.0053	.0139	.0309	.0606	.1068	.1723	.2574	.3595	7
11		.0001	.0005	.0019	.0054	.0131	.0282	.0544	.0957	.1553	.2347	6
12			.0001	.0006	.0018	.0049	.0116	.0244	.0469	.0830	.1366	5
13				.0002	.0005	.0016	.0041	.0094	.0199	.0384	.0691	4
14					.0001	.0004	.0012	.0030	.0070	.0148	.0293	3
15						.0001	.0003	.0008	.0019	.0045	.0098	2
16								.0001	.0004	.0010	.0023	1
17										.0001	.0003	0
	20	19	18	17	16	15	14	13	12	11	10	p \ r

n=20, m=18

r \ p	0	1	2	3	4	5	6	7	8	9	10	
0	.5385	.2834	.1455	.0728	.0353	.0166	.0076	.0033	.0014	.0006	.0002	18
1	.4615	.7166	.3638	.2225	.1289	.0711	.0373	.0187	.0089	.0040	.0017	17
2	.2065	.4409	.6362	.4096	.2735	.1723	.1026	.0579	.0308	.0155	.0074	16
3	.0893	.2455	.4241	.5904	.4422	.3116	.2071	.1299	.0768	.0428	.0223	15
4	.0372	.1265	.2578	.4090	.5578	.4683	.3422	.2361	.1535	.0939	.0538	14
5	.0149	.0608	.1444	.2602	.3946	.5317	.4908	.3681	.2608	.1740	.1088	13
6	.0057	.0274	.0749	.1526	.2575	.3804	.5092	.5112	.3910	.2825	.1918	12
7	.0021	.0116	.0361	.0827	.1550	.2516	.3661	.4887	.5306	.4119	.3018	11
8	.0007	.0046	.0161	.0414	.0860	.1535	.2434	.3514	.4694	.5494	.4315	10
9	.0002	.0017	.0067	.0191	.0439	.0860	.1490	.2333	.3360	.4506	.5684	9
10	.0001	.0006	.0025	.0080	.0205	.0440	.0834	.1421	.2214	.3196	.4315	8
11		.0002	.0009	.0031	.0086	.0204	.0423	.0786	.1330	.2077	.3018	7
12			.0003	.0011	.0033	.0085	.0193	.0390	.0719	.1219	.1918	6
13			.0001	.0003	.0011	.0031	.0077	.0171	.0344	.0636	.1088	5
14				.0001	.0003	.0010	.0027	.0065	.0142	.0288	.0538	4
15					.0001	.0003	.0008	.0020	.0049	.0109	.0223	3
16							.0002	.0005	.0013	.0032	.0074	2
17								.0001	.0003	.0007	.0017	1
18										.0001	.0002	0
	20	19	18	17	16	15	14	13	12	11	10	p \ r

n=20, m=19

r \ p	0	1	2	3	4	5	6	7	8	9	10	
0	.5250	.2692	.1346	.0655	.0309	.0141	.0062	.0027	.0011	.0004	.0002	19
1	.4750	.7308	.3420	.2037	.1149	.0615	.0314	.0152	.0070	.0031	.0012	18
2	.2192	.4615	.6580	.3815	.2482	.1520	.0879	.0481	.0248	.0121	.0055	17
3	.0981	.2651	.4506	.2185	.4084	.2802	.1810	.1101	.0630	.0340	.0170	16
4	0424	.1414	.2828	.4408	.5916	.4291	.3051	.2042	.1286	.0760	.0419	15
5	.0177	.0707	.1643	.2899	.4313	.5709	.4462	.3252	.2233	.1440	.0868	14
6	.0071	.0333	.0888	.1768	.2918	.4220	.5538	.4612	.3422	.2391	.1566	13
7	.0027	.0147	.0449	.1002	.1832	.2903	.4126	.5388	.4748	.3569	.2524	12
8	.0010	.0061	.0211	.0528	.1067	.1854	.2864	.4029	.5252	.4876	.3700	11
9	.0003	.0024	.0093	.0258	.0576	.1096	.1844	.2806	.3926	.5124	.5000	10
10	.0001	.0009	.0038	.0116	.0286	.0598	.1096	.1809	.2729	.3818	.5000	9
11		.0003	.0014	.0048	.0131	.0299	.0598	.1072	.1750	.2636	.3700	8
12		.0001	.0005	.0018	.0054	.0136	.0296	.0578	.1025	.1669	.2524	7
13			.0002	.0006	.0020	.0055	.0132	.0281	.0541	.0957	.1566	6
14				.0002	.0007	.0020	.0052	.0121	.0253	.0488	.0868	5
15				.0001	.0002	.0006	.0018	.0045	.0103	.0216	.0419	4
16					.0001	.0002	.0005	.0014	.0035	.0080	.0170	3
17							.0001	.0003	.0009	.0023	.0055	2
18								.0001	.0002	.0005	.0012	1
19										.0001	.0002	0
	20	19	18	17	16	15	14	13	12	11	10	p \ r

n=20, m=20

r \ p	0	1	2	3	4	5	6	7	8	9	10	
0	.5122	.2561	.1248	.0591	.0271	.0121	.0051	.0021	.0008	.0003	.0001	20
1	.4877	.5188	.3218	.1869	.1025	.0535	.0264	.0124	.0055	.0023	.0009	19
2	.2316	.4811	.5241	.3555	.2253	.1444	.0754	.0400	.0199	.0094	.0041	18
3	.1068	.2841	.4756	.5289	.3770	.2621	.1582	.0934	.0517	.0269	.0130	17
4	.0477	.1563	.3070	.4709	.5333	.4028	.2716	.1766	.1076	.0615	.0327	16
5	.0206	.0809	.1842	.3192	.4664	.5480	.4047	.2868	.1907	.1190	.0692	15
6	.0085	.0395	.1033	.2015	.3257	.4619	.5424	.4147	.2983	.2019	.1276	14
7	.0033	.0182	.0543	.1187	.2122	.3288	.4571	.5474	.4226	.3080	.2103	13
8	.0012	.0079	.0267	.0653	.1290	.2186	.3292	.4524	.5519	.4300	.3154	12
9	.0004	.0032	.0122	.0335	.0731	.1355	.2215	.3281	.4475	.5574	.4365	11
10	.0001	.0012	.0051	.0160	.0385	.0780	.1386	.2220	.3254	.4421	.5634	10
11		.0004	.0019	.0070	.0188	.0415	.0802	.1393	.2203	.3210	.4365	9
12		.0001	.0006	.0028	.0084	.0203	.0426	.0805	.1378	.2162	.3154	8
13			.0001	.0010	.0034	.0090	.0206	.0424	.0788	.1337	.2103	7
14				.0003	.0012	.0036	.0089	.0201	.0407	.0749	.1276	6
15				.0001	.0004	.0013	.0033	.0084	.0187	.0373	.0692	5
16					.0001	.0004	.0010	.0030	.0074	.0161	.0327	4
17						.0001	.0002	.0009	.0024	.0058	.0130	3
18								.0002	.0006	.0016	.0041	2
19									.0001	.0003	.0009	1
20											.0001	0
	20	19	18	17	16	15	14	13	12	11	10	p \ r

n=21, m=5

r \ p	0	1	2	3	4	5	6	7	8	9	10	
0	.8149	.6581	.5266	.4168	.3262	.2520	.1920	.1440	.1061	.0766	.0541	5
1	.1851	.3418	.4734	.5832	.6969	.6122	.5281	.4472	.3714	.3021	.2401	4
2	.0284	.0785	.1443	.2207	.3030	.3877	.4719	.5527	.6836	.6121	.5377	3
3	.0033	.0127	.0299	.0560	.0912	.1357	.1888	.2495	.3163	.3879	.4623	2
4	.0002	.0013	.0039	.0089	.0171	.0296	.0473	.0711	.1017	.1399	.1860	1
5			.0002	.0007	.0015	.0031	.0057	.0098	.0159	.0248	.0372	0
	21	20	19	18	17	16	15	14	13	12	11	p \ r

n=21, m=10

r \ p	0	1	2	3	4	5	6	7	8	9	10	
0	.6875	.4658	.3105	.2034	.1308	.0823	.0506	.0304	.0177	.0100	.0054	10
1	.3124	.5340	.6317	.4941	.3730	.2723	.1925	.1317	.0871	.0555	.0340	9
2	.0906	.2235	.3682	.5058	.6245	.5117	.4054	.3101	.2290	.1629	.1113	8
3	.0241	.0791	.1617	.2636	.3755	.4882	.6275	.5264	.4273	.3348	.2524	7
4	.0058	.0240	.0597	.1146	.1877	.2753	.3725	.4735	.6355	.5406	.4444	6
5	.0012	.0062	.0185	.0416	.0782	.1296	.1959	.2753	.3644	.4594	.6478	5
6	.0002	.0013	.0047	.0124	.0268	.0501	.0848	.1325	.1934	.2672	.3521	4
7		.0002	.0009	.0029	.0073	.0154	.0293	.0511	.0826	.1260	.1826	3
8			.0001	.0005	.0015	.0035	.0076	.0149	.0268	.0454	.0729	2
9					.0002	.0005	.0013	.0029	.0059	.0112	.0200	1
10							.0001	.0003	.0007	.0014	.0028	0
	21	20	19	18	17	16	15	14	13	12	11	p \ r

n=21, m=14

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	
0	.6111	.3667	.2157	.1242	.0699	.0383	.0204	.0106	.0053	.0025	.0012	.0005	14
1	.3890	.6333	.4902	.3415	.2276	.1456	.0895	.0528	.0299	.0162	.0084	.0041	13
2	.1445	.3314	.5098	.5693	.4326	.3139	.2177	.1444	.0916	.0554	.0319	.0174	12
3	.0511	.1529	.2868	.4307	.5674	.5062	.3887	.2853	.2001	.1338	.0850	.0513	11
4	.0171	.0637	.1429	.2484	.3694	.4939	.5695	.4558	.3492	.2556	.1780	.1178	10
5	.0054	.0242	.0637	.1274	.2138	.3176	.4305	.5442	.5178	.4106	.3109	.2241	9
6	.0016	.0083	.0255	.0583	.1101	.1819	.2714	.3737	.4821	.5767	.4703	.3669	8
7	.0005	.0026	.0091	.0237	.0503	.0924	.1521	.2292	.3211	.4234	.6333	.6300	7
8	.0002	.0007	.0029	.0085	.0202	.0413	.0750	.1240	.1897	.2715	.3666	.4707	6
9	.0001	.0002	.0008	.0027	.0070	.0160	.0321	.0583	.0978	.1526	.2239	.3111	5
10			.0002	.0007	.0021	.0053	.0116	.0233	.0429	.0734	.1177	.1782	4
11				.0002	.0005	.0014	.0035	.0076	.0155	.0291	.0512	.0851	3
12					.0001	.0003	.0008	.0019	.0043	.0090	.0174	.0319	2
13							.0001	.0003	.0008	.0019	.0041	.0084	1
14									.0001	.0002	.0005	.0012	0
	21	20	19	18	17	16	15	14	13	12	11	10	p \ r

n=21, m=15

r \ p	0	1	2	3	4	5	6	7	8	9	10	
0	.5947	.3469	.1982	.1107	.0604	.0321	.0165	.0082	.0040	.0018	.0008	15
1	.4052	.6530	.4606	.3121	.2020	.1253	.0745	.0425	.0232	.0121	.0060	14
2	.1574	.3557	.5393	.5324	.3939	.2775	.1865	.1196	.0732	.0426	.0236	13
3	.0583	.1720	.3166	.4675	.5879	.4595	.3425	.2434	.1648	.1061	.0649	12
4	.0204	.0755	.1659	.2827	.4121	.5405	.5158	.4005	.2968	.2094	.1403	11
5	.0067	.0303	.0784	.1533	.2515	.3650	.4842	.5665	.4541	.3477	.2534	10
6	.0020	.0111	.0335	.0748	.1380	.2220	.3229	.4335	.6137	.5049	.3971	9
7	.0005	.0036	.0129	.0328	.0679	.1212	.1938	.2837	.3863	.4951	.5541	8
8	.0001	.0010	.0044	.0128	.0298	.0590	.1040	.1665	.2465	.3411	.4459	7
9		.0002	.0013	.0044	.0115	.0253	.0493	.0866	.1399	.2103	.2971	6
10			.0003	.0013	.0038	.0094	.0203	.0393	.0695	.1139	.1750	5
11				.0003	.0010	.0029	.0071	.0152	.0295	.0529	.0888	4
12					.0002	.0007	.0020	.0048	.0103	.0203	.0374	3
13						.0001	.0004	.0012	.0028	.0060	.0123	2
14								.0002	.0005	.0012	.0028	1
15										.0001	.0003	0
	21	20	19	18	17	16	15	14	13	12	11	p \ r

n=21, m=16

r \ p	0	1	2	3	4	5	6	7	8	9	10	
0	.5789	.3286	.1826	.0991	.0525	.0270	.0135	.0065	.0031	.0014	.0006	16
1	.4210	.6714	.4329	.2856	.1796	.1081	.0623	.0344	.0182	.0092	.0044	15
2	.1707	.3793	.5671	.4976	.3585	.2454	.1600	.0994	.0588	.0331	.0176	14
3	.0664	.1916	.3462	.5024	.5470	.4163	.3014	.2076	.1360	.0845	.0497	13
4	.0246	.0885	.1900	.3169	.4530	.5887	.4656	.3509	.2517	.1715	.1106	12
5	.0087	.0377	.0948	.1808	.2897	.4113	.5345	.5096	.3961	.2932	.2059	11
6	.0029	.0149	.0433	.0937	.1680	.2636	.3740	.4904	.5506	.4387	.3329	10
7	.0009	.0054	.0180	.0441	.0884	.1533	.2382	.3390	.4494	.5899	.4797	9
8	.0003	.0018	.0069	.0188	.0420	.0805	.1373	.2129	.3055	.4101	.6284	8
9	.0001	.0006	.0024	.0072	.0179	.0380	.0711	.1204	.1877	.2724	.3716	7
10		.0002	.0007	.0025	.0068	.0159	.0327	.0606	.1030	.1622	.2394	6
11			.0002	.0007	.0023	.0058	.0132	.0267	.0496	.0851	.1366	5
12			.0001	.0002	.0006	.0018	.0045	.0101	.0205	.0384	.0673	4
13					.0001	.0005	.0013	.0031	.0070	.0143	.0276	3
14						.0001	.0003	.0008	.0019	.0042	.0089	2
15								.0001	.0003	.0009	.0020	1
16										.0001	.0002	0
	21	20	19	18	17	16	15	14	13	12	11	p \ r

n=21, m=17

r \ p	0	1	2	3	4	5	6	7	8	9	10	
0	.5641	.3117	.1685	.0889	.0457	.0229	.0111	.0052	.0024	.0010	.0004	17
1	.4359	.6883	.4072	.2617	.1601	.0936	.0523	.0280	.0143	.0070	.0032	16
2	.1835	.4018	.5928	.4650	.3264	.2173	.1375	.0827	.0473	.0257	.0132	15
3	.0744	.2108	.3745	.5350	.5083	.3769	.2651	.1771	.1122	.0674	.0382	14
4	.0289	.1017	.2140	.3502	.4917	.5445	.4193	.3068	.2131	.1402	.0872	13
5	.0107	.0455	.1119	.2087	.3274	.4555	.5767	.4567	.3443	.2464	.1668	12
6	.0038	.0190	.0538	.1138	.1992	.3053	.4233	.5433	.4912	.3790	.2775	11
7	.0013	.0073	.0238	.0568	.1108	.1872	.2834	.3934	.5088	.5240	.4119	10
8	.0004	.0026	.0097	.0260	.0563	.1048	.1735	.2614	.3645	.4760	.5560	9
9	.0001	.0009	.0036	.0108	.0260	.0532	.0965	.1584	.2390	.3360	.4440	8
10		.0003	.0012	.0041	.0108	.0244	.0484	.0867	.1421	.2159	.3072	7
11		.0001	.0004	.0014	.0040	.0100	.0216	.0423	.0756	.1247	.1919	6
12			.0001	.0004	.0013	.0036	.0085	.0182	.0354	.0636	.1064	5
13				.0001	.0004	.0011	.0028	.0067	.0142	.0279	.0510	4
14					.0001	.0003	.0008	.0020	.0047	.0102	.0204	3
15						.0001	.0002	.0005	.0012	.0029	.0064	2
16								.0001	.0002	.0006	.0014	1
17										.0001	.0002	0
	21	20	19	18	17	16	15	14	13	12	11	p \ r

n=21, m=18

r \ p	0	1	2	3	4	5	6	7	8	9	10	
0	.5500	.2962	.1559	.0800	.0400	.0194	.0091	.0042	.0018	.0008	.0003	18
1	.4500	.7038	.3834	.2401	.1429	.0812	.0441	.0229	.0113	.0053	.0024	17
2	.1961	.4233	.6166	.4345	.2973	.1925	.1183	.0690	.0383	.0201	.0100	16
3	.0826	.2299	.4018	.5655	.4719	.3410	.2332	.1511	.0928	.0538	.0295	15
4	.0334	.1153	.2381	.3825	.5284	.5026	.3769	.2679	.1803	.1148	.0688	14
5	.0130	.0539	.1298	.2370	.3647	.4974	.5295	.4080	.2984	.2066	.1350	13
6	.0048	.0236	.0654	.1351	.2316	.3466	.4706	.5542	.4361	.3260	.2305	12
7	.0017	.0097	.0306	.0710	.1354	.2226	.3289	.4458	.5778	.4624	.3515	11
8	.0006	.0037	.0132	.0344	.0729	.1316	.2120	.3109	.4222	.6011	.4876	10
9	.0002	.0013	.0053	.0153	.0361	.0713	.1254	.1996	.2923	.3991	.6244	9
10	.0001	.0004	.0019	.0062	.0164	.0352	.0677	.1171	.1857	.2730	.3756	8
11		.0001	.0006	.0023	.0069	.0157	.0330	.0623	.1071	.1703	.2524	7
12			.0002	.0008	.0027	.0063	.0144	.0296	.0555	.0957	.1534	6
13				.0002	.0011	.0022	.0055	.0124	.0253	.0476	.0828	5
14					.0005	.0007	.0018	.0045	.0100	.0204	.0388	4
15					.0002	.0002	.0005	.0013	.0032	.0073	.0152	3
16							.0001	.0003	.0008	.0020	.0047	2
17								.0001	.0001	.0004	.0010	1
18											.0001	0
	21	20	19	18	17	16	15	14	13	12	11	p \ r

n=21, m=19

r \ p	0	1	2	3	4	5	6	7	8	9	10	
0	.5366	.2817	.1445	.0722	.0351	.0166	.0076	.0034	.0014	.0006	.0002	19
1	.4634	.7183	.3612	2206	.1279	.0706	.0373	.0188	.0090	.0041	.0018	18
2	.2085	.4438	.6388	.4061	.2709	.1708	.1020	.0578	.0310	.0158	.0076	17
3	.0909	.2488	.4280	.5939	.4379	.3084	.2052	.1291	.0768	.0431	.0228	16
4	.0383	.1293	.2620	.4138	.5621	.4631	.3384	.2337	.1526	.0939	.0544	15
5	.0155	.0629	.1483	.2654	.4003	.5369	.4848	.3636	.2581	.1730	.1091	14
6	.0060	.0288	.0780	.1575	.2637	.3871	.5152	.5043	.3857	.2794	.1908	13
7	.0022	.0124	.0382	.0867	.1609	.2589	.3738	.4957	.5225	.4058	.2983	12
8	.0008	.0050	.0175	.0443	.0909	.1605	.2519	.3603	.4775	.5401	.4245	11
9	.0003	.0019	.0074	.0209	.0475	.0919	.1571	.2430	.3462	.4599	.5576	10
10	.0001	.0007	.0029	.0091	.0228	.0484	.0902	.1513	.2325	.3314	.4423	9
11		.0002	.0011	.0036	.0100	.0233	.0474	.0864	.1436	.2204	.3155	8
12		.0001	.0003	.0013	.0040	.0102	.0226	.0448	.0807	.1339	.2065	7
13			.0001	.0004	.0014	.0040	.0097	.0208	.0408	.0734	.1224	6
14				.0001	.0004	.0014	.0036	.0085	.0182	.0356	.0646	5
15					.0001	.0004	.0012	.0030	.0070	.0150	.0296	4
16						.0001	.0003	.0009	.0022	.0052	.0113	3
17							.0001	.0002	.0006	.0014	.0034	2
18									.0001	.0003	.0007	1
19											.0001	0
	21	20	19	18	17	16	15	14	13	12	11	p \ r

n=21, m=20

r \ p	0	1	2	3	4	5	6	7	8	9	10	
0	.5238	.2683	.1342	.0653	.0309	.0142	.0063	.0027	.0011	.0004	.0001	20
1	.4760	.7315	.3406	.2029	.1145	.0616	.0316	.0154	.0071	.0031	.0012	19
2	.2205	.4632	.6592	.3796	.2470	.1517	.0881	.0484	.0251	.0123	.0056	18
3	.0991	.2671	.4528	.6202	.4060	.2789	.1806	.1103	.0635	.0345	.0175	17
4	.0431	.1433	.2854	.4435	.5939	.4263	.3035	.2037	.1289	.0768	.0429	16
5	.0181	.0722	.1669	.2933	.4349	.5735	.4430	.3233	.2227	.1445	.0880	15
6	.0073	.0343	.0910	.1802	.2961	.4261	.5569	.4573	.3400	.2386	.1574	14
7	.0028	.0153	.0464	.1031	.1877	.2953	.4174	.5425	.4703	.3544	.2519	13
8	.0010	.0064	.0221	.0550	.1108	.1907	.2923	.4085	.5296	.4824	.3671	12
9	.0003	.0025	.0098	.0273	.0608	.1145	.1907	.2875	.3993	.5176	.4941	11
10	.0001	.0009	.0040	.0125	.0309	.0637	.1154	.1883	.2811	.3896	.5059	10
11		.0003	.0015	.0052	.0145	.0327	.0645	.1141	.1837	.2730	.3789	9
12		.0001	.0005	.0019	.0062	.0154	.0330	.0635	.1104	.1769	.2636	8
13			.0001	.0006	.0024	.0066	.0153	.0321	.0605	.1049	.1683	7
14				.0001	.0008	.0025	.0063	.0146	.0298	.0560	.0975	6
15					.0002	.0008	.0022	.0058	.0129	.0265	.0503	5
16						.0002	.0006	.0019	.0048	.0108	.0225	4
17							.0001	.0005	.0014	.0036	.0084	3
18								.0001	.0003	.0009	.0024	2
19										.0001	.0004	1
20												0
	21	20	19	18	17	16	15	14	13	12	11	p \ r

n=21, m=21

r \ p	0	1	2	3	4	5	6	7	8	9	10	
0	5116	2558	1248	0593	0273	0122	0053	0022	0009	.0003	0001	21
1	.4882	.5178	.3213	.1870	.1029	.0539	.0269	.0128	.0058	.0024	.0010	20
2	.2324	.4819	.5229	.3550	.2255	.1350	.0763	.0408	.0206	.0098	.0044	19
3	.1076	.2854	.4770	.5275	.3765	.2523	.1591	.0946	.0529	.0279	.0138	18
4	0483	1577	3087	4723	.5318	3920	2720	1778	1093	0632	.0342	17
5	.0209	.0821	.1861	.3213	.4680	.5360	.4040	.2873	.1923	.1211	.0714	16
6	.0087	.0404	.1051	.2040	.3283	.4639	.5402	.4138	.2992	.2038	.1302	15
7	.0034	.0188	.0557	.1212	.2154	.3319	.4596	.5446	.4218	.3088	.2126	14
8	.0012	.0082	.0277	.0674	.1322	.2225	.3331	.4552	.5490	.4289	.3164	13
9	.0003	.0033	.0129	.0351	.0759	.1395	.2262	.3326	.4509	.5539	.4351	12
10		.0012	.0056	.0170	.0406	.0816	.1435	.2276	.3308	.4459	.5590	11
11		.0003	.0022	.0076	.0202	.0444	.0847	.1452	.2270	.3272	.4408	10
12			.0008	.0031	.0093	.0223	.0463	.0859	.1446	.2240	.3225	9
13			.0002	.0011	.0039	.0103	.0232	.0468	.0850	.1419	.2193	8
14				.0003	.0015	.0043	.0106	.0232	.0456	.0823	.1371	7
15					.0005	.0016	.0043	.0104	.0220	.0432	.0778	6
16					.0001	.0005	.0015	.0041	.0094	.0201	.0393	5
17						.0001	.0004	.0014	.0034	0081	.0109	4
18							.0001	.0004	.0010	.0027	.0063	3
19								.0001	.0002	.0007	.0018	2
20										.0001	.0003	1
21												0
	21	20	19	18	17	16	15	14	13	12	11	p \ r

n=22, m=5

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	
0	.8215	.6694	.5406	.4325	.3424	.2680	.2071	.1578	.1183	.0872	.0629	.0444	5
1	.1785	.3306	.4594	.5675	.7147	.6335	.5522	.4733	.3985	.3294	.2667	.2111	4
2	.0264	.0732	.1350	.2070	.2853	.3665	.4478	.5267	.7099	.6428	.5723	.5000	3
3	.0030	.0114	.0269	.0502	.0823	.1229	.1717	.2278	.2901	.3572	.4277	.5000	2
4	.0002	.0011	.0034	.0075	.0147	.0255	.0410	.0617	.0886	.1221	.1629	.2111	1
5			.0002	.0005	.0012	.0025	.0047	.0080	.0131	.0203	.0305	.0444	0
	22	21	20	19	18	17	16	15	14	13	12	11	p \ r

n=22, m=10

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	
0	.6971	.4792	.3246	.2164	.1418	.0911	.0574	.0353	.0212	.0123	.0070	.0038	10
1	.3028	.5205	.6753	.5149	.3949	.2937	.2119	.1483	.1006	.0660	.0419	.0255	9
2	.0850	.2114	.3507	.4850	.6480	.5391	.4344	.3390	.2560	.1869	.1317	.0892	8
3	.0218	.0723	.1492	.2452	.3518	.4608	.5654	.5601	.4633	.3712	.2873	.2144	7
4	.0050	.0212	.0533	.1030	.1700	.2518	.3429	.4398	.5366	.5808	.4881	.3969	6
5	.0010	.0052	.0160	.0360	.0682	.1139	.1737	.2463	.3293	.4191	.5118	.6031	5
6	.0001	.0010	.0040	.0103	.0224	.0422	.0721	.1136	.1676	.2337	.3110	.3969	4
7		.0001	.0008	.0023	.0058	.0124	.0238	.0418	.0683	.1050	.1535	.2144	3
8			.0001	.0003	.0011	.0027	.0059	.0116	.0211	.0358	.0579	.0892	2
9					.0001	.0004	.0010	.0022	.0044	.0083	.0149	.0255	1
10							.0001	.0002	.0005	.0010	.0020	.0038	0
	22	21	20	19	18	17	16	15	14	13	12	11	p \ r

n=22, m=15

r\p	0	1	2	3	4	5	6	7	8	9	10	11	
0	.6053	.3599	.2099	.1200	.0670	.0366	.0194	.0100	.0050	.0024	.0011	.0005	15
1	.3946	.6400	.4799	.3317	.2194	.1394	.0852	.0501	.0283	.0153	.0079	.0039	14
2	.1492	.3401	.5201	.5563	.4194	.3020	.2081	.1372	.0866	.0523	.0300	.0164	13
3	.0538	.1601	.2977	.4437	.5805	.4899	.3733	.2721	.1896	.1262	.0800	.0482	12
4	.0184	.0684	.1517	.2612	.3848	.5101	.5503	.4369	.3322	.2416	.1675	.1104	11
5	.0059	.0267	.0696	.1377	.2282	.3352	.4496	.6043	.4954	.3897	.2931	.2100	10
6	.0018	.0095	.0288	.0652	.1213	.1977	.2909	.3957	.5045	.5507	.4453	.3444	9
7	.0005	.0031	.0107	.0277	.0577	.1044	.1689	.2506	.3458	.4492	.6037	.5000	8
8	.0001	.0009	.0035	.0105	.0244	.0490	.0873	.1418	.2128	.2987	.3963	.5000	7
9		.0002	.0010	.0035	.0090	.0202	.0397	.0709	.1161	.1769	.2538	.3444	6
10			.0002	.0010	.0028	.0072	.0156	.0308	.0552	.0916	.1429	.2100	5
11				.0002	.0007	.0021	.0051	.0113	.0223	.0405	.0690	.1104	4
12					.0001	.0005	.0013	.0034	.0074	.0147	.0275	.0482	3
13						.0001	.0002	.0008	.0019	.0041	.0085	.0164	2
14								.0001	.0003	.0008	.0018	.0039	1
15										.0001	.0002	.0005	0
	22	21	20	19	18	17	16	15	14	13	12	11	p\r

n=22, m=16

r\p	0	1	2	3	4	5	6	7	8	9	10	11	
0	.5897	.3414	.1938	.1077	.0584	.0309	.0159	.0080	.0039	.0018	.0008	.0004	16
1	.4103	.6585	.4522	.3045	.1960	.1210	.0717	.0409	.0224	.0117	.0059	.0028	15
2	.1619	.3632	.5478	.5217	.3835	.2686	.1797	.1149	.0702	.0410	.0228	.0120	14
3	.0613	.1787	.3264	.4784	.5749	.4465	.3309	.2341	.1580	.1017	.0622	.0361	13
4	.0221	.0802	.1744	.2941	.4251	.5535	.5003	.3862	.2848	.2003	.1340	.0851	12
5	.0076	.0332	.0846	.1632	.2646	.3801	.4997	.5484	.4369	.3328	.2417	.1668	11
6	.0025	.0127	.0374	.0820	.1490	.2366	.3400	.4516	.5931	.4846	.3790	.2825	10
7	.0007	.0044	.0151	.0374	.0759	.1333	.2099	.3028	.4069	.5154	.5306	.4243	9
8	.0002	.0014	.0056	.0154	.0349	.0677	.1169	.1838	.2675	.3645	.4694	.5757	8
9	.0001	.0004	.0018	.0057	.0144	.0308	.0583	.1002	.1584	.2333	.3233	.4243	7
10		.0001	.0005	.0019	.0052	.0124	.0258	.0484	.0834	.1334	.1998	.2825	6
11			.0001	.0005	.0017	.0044	.0100	.0204	.0384	.0669	.1089	.1668	5
12				.0001	.0005	.0013	.0033	.0074	.0151	.0288	.0510	.0851	4
13					.0001	.0003	.0009	.0022	.0049	.0102	.0198	.0361	3
14						.0001	.0002	.0005	.0012	.0028	.0060	.0120	2
15								.0001	.0002	.0005	.0013	.0028	1
16										.0001	.0001	.0004	0
	22	21	20	19	18	17	16	15	14	13	12	11	p\r

n=21, m=17

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	
0	.5750	.3244	.1793	.0969	.0511	.0263	.0132	.0064	.0030	.0014	.0006	.0002	17
1	.4250	.6756	.4263	.2799	.1753	.1052	.0606	.0335	.0177	.0090	.0044	.0020	16
2	.1735	.3854	.5737	.4891	.3507	.2391	.1554	.0964	.0571	.0322	.0173	.0088	15
3	.0688	.1972	.3540	.5109	.5366	.4065	.2931	.2013	.1317	.0819	.0484	.0271	14
4	.0261	.0926	.1972	.3264	.4634	.5765	.4537	.3406	.2436	.1658	.1071	.0655	13
5	.0094	.0403	.1003	.1893	.3007	.4235	.5463	.4957	.3836	.2831	.1986	.1320	12
6	.0032	.0163	.0469	.1003	.1779	.2761	.3879	.5043	.5345	.4239	.3206	.2304	11
7	.0011	.0061	.0201	.0486	.0960	.1643	.2521	.3549	.4655	.5714	.4624	.3569	10
8	.0003	.0021	.0080	.0215	.0472	.0890	.1494	.2284	.3233	.4286	.6073	.5000	9
9	.0001	.0007	.0029	.0086	.0210	.0437	.0803	.1336	.2047	.2924	.3927	.5000	8
10		.0002	.0009	.0031	.0084	.0193	.0388	.0704	.1171	.1809	.2616	.3569	7
11		.0001	.0003	.0010	.0030	.0076	.0167	.0330	.0598	.1002	.1567	.2304	6
12			.0001	.0003	.0010	.0026	.0063	.0136	.0268	.0488	.0829	.1320	5
13				.0001	.0003	.0008	.0020	.0048	.0103	.0204	.0378	.0655	4
14					.0001	.0002	.0005	.0014	.0032	.0071	.0143	.0271	3
15							.0001	.0003	.0008	.0019	.0042	.0088	2
16									.0001	.0004	.0009	.0020	1
17											.0001	.0002	0
	22	21	20	19	18	17	16	15	14	13	12	11	p \ r

n=22, m=18

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	
0	.5610	.3085	.1661	.0874	.0449	.0225	.0109	.0051	.0023	.0010	.0004	.0002	18
1	.4390	.6915	.4022	.2576	.1572	.0917	.0513	.0275	.0141	.0070	.0033	.0015	17
2	.1866	.4067	.5978	.4585	.3207	.2130	.1346	.0811	.0465	.0254	.0132	.0065	16
3	.0765	.2155	.3808	.5415	.5003	.3697	.2595	.1732	.1098	.0662	.0378	.0204	15
4	.0302	.1054	.2201	.3579	.4997	.5350	.4106	.2998	.2081	.1371	.0856	.0505	14
5	.0114	.0480	.1168	.2161	.3364	.4650	.5657	.4465	.3358	.2402	.1629	.1044	13
6	.0041	.0204	.0573	.1198	.2078	.3157	.4343	.5941	.4793	.3689	.2700	.1872	12
7	.0014	.0081	.0260	.0612	.1180	.1970	.2952	.4059	.5207	.5102	.4001	.2983	11
8	.0005	.0030	.0109	.0288	.0615	.1129	.1845	.2747	.3788	.4898	.5401	.4302	10
9	.0001	.0010	.0042	.0124	.0293	.0592	.1056	.1706	.2539	.3522	.4599	.5698	9
10		.0003	.0015	.0049	.0127	.0282	.0550	.0966	.1556	.2325	.3255	.4302	8
11		.0001	.0005	.0017	.0050	.0121	.0259	.0494	.0864	.1395	.2104	.2983	7
12			.0001	.0006	.0018	.0047	.0108	.0226	.0429	.0751	.1224	.1872	6
13				.0002	.0005	.0016	.0040	.0091	.0187	.0356	.0630	.1044	5
14					.0001	.0005	.0013	.0031	.0070	.0145	.0280	.0505	4
15						.0001	.0003	.0009	.0022	.0049	.0104	.0204	3
16							.0001	.0002	.0005	.0013	.0030	.0065	2
17									.0001	.0002	.0006	.0014	1
18										.0001	.0001	.0002	0
	22	21	20	19	18	17	16	15	14	13	12	11	p \ r

n=22, m=19

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	
0	.5476	.2938	.1543	.0791	.0396	.0192	.0091	.0042	.0018	.0008	.0003	.0001	19
1	.4524	.7062	.3797	.2373	.1411	.0802	.0436	.0227	.0113	.0054	.0025	.0011	18
2	.1986	.4270	.6203	.4298	.2935	.1899	.1168	.0683	.0380	.0201	.0101	.0048	17
3	.0844	.2337	.4067	.5702	.4661	.3361	.2298	.1490	.0918	.0536	.0296	.0154	16
4	.0346	.1185	.2431	.3885	.5339	.4957	.3710	.2636	.1777	.1135	.0685	.0390	15
5	.0137	.0562	.1340	.2431	.3714	.5043	.5214	.4011	.2932	.2034	.1335	.0826	14
6	.0052	.0250	.0686	.1404	.2384	.3547	.4786	.5449	.4281	.3199	.2267	.1518	13
7	.0019	.0105	.0327	.0751	.1415	.2309	.3383	.4551	.5672	.4530	.3444	.2481	12
8	.0006	.0041	.0145	.0372	.0776	.1389	.2214	.3216	.4328	.5889	.4768	.3674	11
9	.0002	.0015	.0060	.0171	.0393	.0771	.1338	.2103	.3044	.4112	.6105	.5000	10
10	.0001	.0005	.0023	.0072	.0183	.0393	.0743	.1266	.1977	.2867	.3895	.5000	9
11		.0002	.0008	.0028	.0078	.0183	.0377	.0697	.1177	.1838	.2680	.3674	8
12			.0002	.0010	.0030	.0077	.0173	.0348	.0636	.1073	.1685	.2481	7
13			.0001	.0003	.0010	.0029	.0071	.0155	.0308	.0563	.0956	.1518	6
14				.0001	.0003	.0010	.0026	.0061	.0131	.0261	.0480	.0826	5
15					.0001	.0003	.0008	.0021	.0048	.0104	.0209	.0390	4
16						.0001	.0002	.0006	.0015	.0035	.0076	.0154	3
17								.0001	.0003	.0009	.0021	.0048	2
18									.0001	.0002	.0004	.0011	1
19												.0001	0
	22	21	20	19	18	17	16	15	14	13	12	11	p \ r

n=22, m=20

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	
0	.5349	.2802	.1435	.0717	.0349	.0165	.0076	.0034	.0014	.0006	.0002	.0001	20
1	.4648	.7195	.3587	.2189	.1269	.0702	.0372	.0188	.0091	.0042	.0018	.0008	19
2	.2101	.4462	.6412	.4029	.2687	.1694	.1014	.0577	.0312	.0160	.0077	.0036	18
3	.0921	.2514	.4314	.5970	.4341	.3055	.2034	.1284	.0767	.0434	.0231	.0117	17
4	.0390	.1315	.2658	.4179	.5658	.4586	.3348	.2317	.1516	.0939	.0548	.0302	16
5	.0159	.0645	.1517	.2699	.4052	.5414	.4794	.3597	.2555	.1720	.1091	.0653	15
6	.0062	.0297	.0807	.1617	.2691	.3929	.5205	.4983	.3809	.2765	.1896	.1227	14
7	.0023	.0128	.0401	.0901	.1659	.2653	.3806	.5017	.5153	.4004	.3949	.2054	13
8	.0008	.0051	.0186	.0468	.0952	.1665	.2593	.3679	.4845	.5320	.4181	.3118	12
9	.0002	.0018	.0080	.0226	.0506	.0970	.1642	.2514	.3551	.4679	.5482	.4352	11
10		.0007	.0032	.0101	.0249	.0523	.0963	.1594	.2423	.3415	.4517	.5648	10
11		.0002	.0012	.0041	.0112	.0260	.0520	.0932	.1529	.2314	.3273	.4352	9
12			.0004	.0015	.0046	.0118	.0257	.0499	.0886	.1444	.2193	.3118	8
13			.0001	.0005	.0017	.0048	.0115	.0242	.0467	.0821	.1345	.2054	7
14				.0001	.0005	.0017	.0046	.0105	.0221	.0420	.0745	.1227	6
15					.0001	.0005	.0016	.0040	.0092	.0190	.0366	.0653	5
16						.0001	.0005	.0013	.0033	.0074	.0155	.0302	4
17							.0001	.0003	.0010	.0024	.0055	.0117	3
18									.0002	.0006	.0015	.0036	2
19										.0001	.0003	.0008	1
20												.0001	0
	22	21	20	19	18	17	16	15	14	13	12	11	p \ r

n=22, m=21

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	
0	.5227	.2674	.1337	.0652	.0310	.0143	.0064	.0028	.0012	.0005	.0002	.0001	21
1	.4773	.7326	.3392	.2022	.1144	.0617	.0318	.0157	.0074	.0033	.0014	.0006	20
2	.2220	.4651	.6608	.3778	.2461	.1514	.0883	.0489	.0257	.0128	.0060	.0027	19
3	.1004	.2694	.4553	.6222	.4039	.2777	.1803	.1107	.0643	.0354	.0183	.0089	18
4	.0441	.1455	.2885	.4465	.5961	.4238	.3020	.2035	.1296	.0779	.0441	.0235	17
5	.0187	.0740	.1699	.2970	.4383	.5762	.4400	.3218	.2225	.1454	.0895	.0518	16
6	.0077	.0356	.0937	.1841	.3003	.4301	.5600	.4540	.3383	.2385	.1587	.0993	15
7	.0030	.0162	.0485	.1066	.1921	.3003	.4220	.5460	.4665	.3525	.2520	.1698	14
8	.0011	.0070	.0236	.0578	.1148	.1959	.2980	.4138	.5335	.4782	.3651	.2635	13
9	.0004	.0029	.0108	.0293	.0640	.1193	.1967	.2940	.4052	.5219	.4892	.3764	12
10	.0001	.0011	.0046	.0139	.0333	.0677	.1211	.1952	.2885	.3962	.5108	.5000	11
11		.0004	.0018	.0061	.0161	.0357	.0692	.1206	.1916	.2817	.3867	.5000	10
12		.0001	.0007	.0025	.0072	.0174	.0365	.0689	.1180	.1862	.2734	.3763	9
13			.0002	.0009	.0029	.0078	.0177	.0361	.0668	.1135	.1689	.2635	8
14			0001	.0003	.0011	.0032	.0078	.0173	.0345	.0633	.1073	.1697	7
15				.0001	.0004	.0012	.0031	.0074	.0160	.0318	.0582	.0993	6
16					.0001	.0004	.0011	.0028	.0066	.0141	.0281	.0518	5
17						.0001	.0003	.0009	.0023	.0054	.0117	.0235	4
18							.0001	.0002	.0007	.0017	.0041	.0089	3
19								.0001	.0002	.0004	.0011	.0026	2
20										.0001	.0002	.0005	1
21													0
	22	21	20	19	18	17	16	15	14	13	12	11	p \ r

n=22, m=22

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	
0	.5110	.2555	.1247	.0594	.0275	.0124	.0054	.0023	.0009	.0004	.0001		22
1	.4887	.5169	.3208	.1869	.1032	.0543	.0273	.0131	.0060	.0027	.0010	.0004	21
2	.2332	.4828	.5217	.3543	.2255	.1354	.0770	.0415	.0212	.0104	.0046	.0020	20
3	.1084	.2867	.4779	.5260	.3757	.2524	.1598	.0956	.0540	.0290	.0144	.0068	19
4	.0490	.1592	.3105	.4737	.5302	.3912	.2722	.1787	.1107	.0648	.0354	.0183	18
5	.0215	.0835	.1882	.3235	.4695	.5340	.4031	.2875	.1936	.1230	.0733	.0411	17
6	.0091	.0415	.1071	.2065	.3307	.4657	.5379	.4127	.2996	.2055	.1325	.0803	16
7	.0037	.0196	.0574	.1237	.2183	.3348	.4617	.5420	.4208	.3095	.2147	.1400	15
8	.0014	.0088	.0290	.0696	.1352	.2260	.3365	.4577	.5461	.4279	.3174	.2218	14
9	.0005	.0037	.0138	.0368	.0785	.1431	.2305	.3365	.4534	.5507	.4341	.3236	13
10	.0001	.0014	.0061	.0182	.0427	.0849	.1480	.2325	.3350	.4491	.5555	.4394	12
11		.0005	.0025	.0084	.0217	.0470	.0888	.1504	.2324	.3324	.4441	.5602	11
12		.0001	.0009	.0036	.0102	.0242	.0496	.0907	.1506	.2306	.3283	.4394	10
13			.0002	.0014	.0044	.0115	.0256	.0507	.0906	.1489	.2268	.3236	9
14				.0005	.0017	.0050	.0121	.0261	.0502	.0888	.1451	.2218	8
15				.0001	.0005	.0020	.0052	.0123	.0254	.0484	.0851	.1400	7
16					.0001	.0007	.0020	.0052	.0116	.0238	.0451	.0803	6
17						.0002	.0007	.0020	.0047	.0103	.0211	.0411	5
18							.0002	.0007	.0017	.0038	.0084	.0183	4
19								.0002	.0005	.0011	.0030	.0068	3
20									.0001	.0002	.0008	.0020	2
21											0001	.0004	1
22													0
	22	21	20	19	18	17	16	15	14	13	12	11	p \ r

n=23, m=5

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	
0	.8276	.6800	.5540	.4474	.3580	.2833	.2217	.1714	.1305	.0979	.0721	.0521	5
1	.1724	.3200	.4460	.5526	.7308	.6530	.5745	.4978	.4243	.3556	.2926	.2360	4
2	.0246	.0682	.1264	.1946	.2692	.3470	.4254	.5021	.7335	.6705	.6039	.5348	3
3	.0027	.0101	.0241	.0455	.0747	.1118	.1566	.2084	.2665	.3294	.3961	.4652	2
4	.0002	.0009	.0028	.0066	.0128	.0222	.0357	.0538	.0775	.1071	.1433	.1862	1
5			.0001	.0004	.0010	.0021	.0039	.0066	.0108	.0168	.0252	.0368	0
	23	22	21	20	19	18	17	16	15	14	13	12	p \ r

n=23, m=10

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	
0	.7058	.4919	.3382	.2291	.1528	.1001	.0643	.0405	.0249	.0149	.0087	.0049	10
1	.2940	.5079	.6617	.5346	.4162	.3146	.2311	.1651	.1146	.0772	.0504	.0318	9
2	.0801	.2005	.3344	.4653	.5838	.5648	.4620	.3670	.2829	.2113	.1528	.1067	8
3	.0200	.0666	.1380	.2283	.3298	.4352	.5380	.5913	.4975	.4064	.3219	.2466	7
4	.0045	.0190	.0477	.0929	.1542	.2299	.3163	.4086	.5024	.6178	.5291	.4398	6
5	.0009	.0046	.0139	.0314	.0597	.1006	.1546	.2208	.2976	.3821	.4709	.6460	5
6	.0001	.0009	.0034	.0087	.0189	.0359	.0618	.0979	.1454	.2045	.2746	.3539	4
7		.0001	.0007	.0019	.0047	.0101	.0196	.0345	.0566	.0877	.1292	.1821	3
8			.0001	.0003	.0009	.0021	.0047	.0091	.0166	.0284	.0462	.0717	2
9					.0001	.0003	.0008	.0016	.0033	.0062	.0112	.0193	1
10							.0001	.0001	.0003	.0007	.0014	.0027	0
	23	22	21	20	19	18	17	16	15	14	13	12	p \ r

n=23, m=15

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	
0	.6153	.3724	.2215	.1292	.0738	.0412	.0225	.0119	.0061	.0030	.0015	.0007	15
1	.3846	.6272	.4983	.3507	.2366	.1537	.0963	.0582	.0338	.0189	.0102	.0053	14
2	.1417	.3253	.5015	.5787	.4439	.3260	.2297	.1554	.1008	.0627	.0375	.0214	13
3	.0498	.1491	.2800	.4212	.5560	.5187	.4031	.3006	.2149	.1472	.0966	.0606	12
4	.0166	.0619	.1389	.2416	.3595	.4812	.5825	.4717	.3671	.2740	.1960	.1340	11
5	.0052	.0234	.0619	.1237	.2074	.3078	.4175	.5281	.5345	.4306	.3327	.2464	10
6	.0015	.0080	.0249	.0568	.1070	.1762	.2624	.3607	.4655	.5933	.4912	.3911	9
7	.0004	.0024	.0090	.0233	.0493	.0901	.1475	.2213	.3093	.4066	.5088	.5506	8
8	.0001	.0006	.0029	.0085	.0202	.0409	.0737	.1209	.1838	.2611	.3514	.4493	7
9		.0001	.0008	.0027	.0073	.0163	.0324	.0582	.0965	.1487	.2165	.2978	6
10			.0002	.0007	.0023	.0056	.0123	.0243	.0440	.0738	.1168	.1738	5
11				.0001	.0006	.0016	.0039	.0086	.0170	.0311	.0538	.0870	4
12					.0001	.0003	.0010	.0025	.0054	.0107	.0204	.0360	3
13							.0002	.0006	.0013	.0028	.0059	.0115	2
14								.0001	.0002	.0005	.0012	.0025	1
15											.0001	.0003	0
	23	22	21	20	19	18	17	16	15	14	13	12	p \ r

n=23, m=16

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	
0	.6000	.3539	.2049	.1163	.0646	.0351	.0186	.0096	.0048	.0023	.0011	.0005	16
1	.4000	.6462	.4706	.3230	.2123	.1341	.0816	.0478	.0270	.0147	.0076	.0038	15
2	.1539	.3482	.5294	.5444	.4077	.2916	.1997	.1311	.0825	.0498	.0287	.0158	14
3	.0567	.1670	.3079	.4556	.5923	.4754	.3598	.2607	.1808	.1200	.0760	.0459	13
4	.0199	.0730	.1603	.2732	.3989	.5246	.5332	.4204	.3177	.2298	.1588	.1046	12
5	.0066	.0294	.0756	.1475	.2417	.3512	.4669	.5847	.4759	.3718	.2781	.1986	11
6	.0021	.0109	.0325	.0720	.1322	.2125	.3090	.4153	.5241	.5280	.4239	.3259	10
7	.0006	.0038	.0127	.0319	0653	.1161	.1850	.2703	.3679	.4720	.5778	.4748	9
8	.0002	.0012	.0045	.0127	.0290	.0570	.0997	.1587	.2340	.3233	.4222	.6262	8
9		.0003	.0015	.0046	.0116	.0250	.0480	.0834	.1336	.1996	.2806	.3738	7
10		.0001	.0004	.0015	.0041	.0097	.0204	.0388	.0677	.1096	.1666	.2391	6
11			.0001	.0004	.0013	.0033	.0076	.0157	.0299	.0527	.0869	.1349	5
12				.0001	.0003	.0009	.0024	.0054	.0112	.0216	.0388	.0655	4
13					.0001	.0002	.0006	.0015	.0035	.0073	.0143	.0263	3
14							.0001	.0003	.0008	.0019	.0041	.0083	2
15								.0001	.0001	.0003	.0008	.0018	1
16											.0001	.0002	0
	23	22	21	20	19	18	17	16	15	14	13	12	p \ r

n=23, m=17

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	
0	.5854	.3366	.1899	.1049	.0567	.0299	.0154	.0077	.0037	.0018	.0008	.0003	17
1	.4146	.6634	.4447	.2978	.1906	.1172	.0693	.0394	.0216	.0113	.0057	.0028	16
2	.1659	.3700	.5553	.5120	.3743	.2609	.1738	.1108	.0676	.0395	.0220	.0117	15
3	.0638	.1847	.3349	.4880	.5634	.4350	.3207	.1159	.1520	.0977	.0599	.0349	14
4	.0235	.0845	.1819	.3043	.4366	.5650	.4866	.3737	.2743	.1923	.1285	.0817	13
5	.0083	.0358	.0901	.1720	.2762	.3935	.5134	.5326	.4219	.3199	.2316	.1596	12
6	.0028	.0141	.0409	.0886	.1589	.2497	.3552	.4674	.5750	.4670	.3634	.2700	11
7	.0009	.0051	.0171	.0416	.0833	.1443	.2243	.3198	.4251	.6150	.5102	.4058	10
8	.0003	.0017	.0065	.0179	.0396	.0757	.1288	.1995	.2864	.3849	.4898	.5524	9
9	.0001	.0005	.0023	.0070	.0171	.0359	.0669	.1128	.1753	.2539	.3462	.4476	8
10		.0002	.0007	.0024	.0066	.0153	.0312	.0573	.0966	.1513	.2222	.3081	7
11			.0002	.0008	.0023	.0058	.0129	.0258	.0474	.0805	.1277	.1908	6
12			.0001	.0002	.0007	.0019	.0047	.0102	.0203	.0375	.0646	.1044	5
13				.0001	.0002	.0005	.0014	.0034	.0075	.0150	.0280	.0493	4
14						.0001	.0004	.0009	.0023	.0049	.0101	.0193	3
15							.0001	.0002	.0005	.0013	.0028	.0059	2
16									.0001	.0002	.0006	.0013	1
17											.0001	.0001	0
	23	22	21	20	19	18	17	16	15	14	13	12	p \ r

n=23, m=18

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	
0	.5714	.3206	.1763	.0949	.0500	.0257	.0128	.0062	.0029	.0013	.0006	.0002	18
1	.4286	.6794	.4204	.2748	.1715	.1026	.0590	.0326	.0173	.0088	.0043	.0020	17
2	.1777	.3909	.5796	.4814	.3437	.2335	.1514	.0938	.0556	.0314	.0170	.0087	16
3	.0711	.2023	.3612	.5186	.5273	.3977	.2857	.1958	.1279	.0797	.0472	.0266	15
4	.0273	.0964	.2037	.3349	.4727	.5656	.4432	.3314	.2365	.1608	.1040	.0639	14
5	.0101	.0427	.1053	.1972	.3106	.4344	.5568	.4834	.3727	.2743	.1923	.1281	13
6	.0035	.0177	.0502	.1064	.1869	.2874	.4004	.5166	.5203	.4110	.3101	.2227	12
7	.0012	.0068	.0222	.0528	.1031	.1744	.2648	.3690	.4797	.5551	.4473	.3444	11
8	.0004	.0025	.0090	.0241	.0521	.0970	.1606	.2425	.3391	.4448	.5888	.4825	10
9	.0001	.0008	.0034	.0101	.0241	.0492	.0890	.1459	.2202	.3100	.4112	.6221	9
10		.0002	.0012	.0038	.0101	.0227	.0448	.0798	.1303	.1977	.2812	.3779	8
11		.0001	.0004	.0013	.0038	.0094	.0203	.0393	.0697	.1142	.1750	.2523	7
12			.0001	.0004	.0013	.0035	.0082	.0173	.0332	.0590	.0976	.1518	6
13				.0001	.0004	.0011	.0029	.0067	.0139	.0268	.0480	.0808	5
14					.0001	.0003	.0009	.0022	.0050	.0104	.0203	.0371	4
15						.0001	.0002	.0006	.0015	.0033	.0071	.0142	3
16							.0001	.0001	.0003	.0008	.0020	.0042	2
17									.0001	.0001	.0004	.0009	1
18												.0001	0
	23	22	21	20	19	18	17	16	15	14	13	12	p \ r

n=23, m=19

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	
0	.5581	.3057	.1640	.0861	.0442	.0221	.0107	.0051	.0023	.0010	.0004	.0002	19
1	.4419	.6944	.3977	.2539	.1546	.0901	.0504	.0271	.0140	.0069	.0033	.0015	18
2	.1894	.4111	.6023	.4526	.3157	.2091	.1321	.0796	.0458	.0251	.0131	.0065	17
3	.0785	.2199	.3865	.5474	.4932	.3633	.2545	.1697	.1077	.0651	.0374	.0204	16
4	.0314	.1087	.2257	.3648	.5068	.5266	.4029	.2936	.2037	.1344	.0842	.0500	15
5	.0121	.0503	.1214	.2228	.3445	.4734	.5560	.4375	.3284	.2347	.1595	.1027	14
6	.0045	.0218	.0605	.1254	.2157	.3250	.4441	.5830	.4688	.3601	.2635	.1831	13
7	.0016	.0089	.0280	.0653	.1245	.2060	.3058	.4171	.5312	.4982	.3898	.2906	12
8	.0005	.0034	.0121	.0314	.0663	.1204	.1946	.2866	.3914	.5019	.5263	.4183	11
9	.0002	.0012	.0048	.0140	.0326	.0648	.1140	.1818	.2672	.3665	.4737	.5540	10
10	.0001	.0004	.0018	.0057	.0147	.0319	.0613	.1059	.1679	.2474	.3417	.4460	9
11		.0001	.0006	.0021	.0060	.0144	.0300	.0563	.0965	.1531	.2269	.3165	8
12			.0002	.0007	.0022	.0058	.0133	.0270	.0502	.0860	.1372	.2055	7
13			.0001	.0002	.0007	.0021	.0052	.0116	.0233	.0433	.0746	.1204	6
14				.0001	.0002	.0007	.0018	.0044	.0095	.0192	.0358	.0625	5
15					.0001	.0002	.0005	.0014	.0033	.0073	.0148	.0281	4
16							.0001	.0004	.0010	.0023	.0051	.0105	3
17								.0001	.0002	.0006	.0014	.0031	2
18										.0001	.0003	.0006	1
19												.0001	0
	23	22	21	20	19	18	17	16	15	14	13	12	p \ r

n=23, m=20

r\p	0	1	2	3	4	5	6	7	8	9	10	11	
0	.5454	.2918	.1528	.0782	.0391	.0190	.0090	.0041	.0018	.0008	.0003	.0001	20
1	.4544	.7080	.3764	.2348	.1395	.0792	.0432	.0225	.0113	.0054	.0024	.0010	19
2	.2007	.4302	.6234	.4255	.2901	.1874	.1153	.0675	.0378	.0201	.0101	.0048	18
3	.0859	.2370	.4109	.5744	.4610	.3317	.2267	.1471	.0908	.0532	.0295	.0155	17
4	.0355	.1211	.2474	.3937	.5390	.4894	.3658	.2597	.1853	.1122	.0681	.0391	16
5	.0141	.0580	.1378	.2485	.3776	.5106	.5143	.3949	.2987	.2004	.1320	.0822	15
6	.0053	.0261	.0714	.1452	.2448	.3621	.4855	.5366	.4310	.3144	.2232	.1501	14
7	.0019	.0110	.0345	.0788	.1472	.2384	.3464	.4634	.5679	.4447	.3381	.2441	13
8	.0006	.0043	.0155	.0398	.0821	.1456	.2297	.3311	.4421	.5780	.4673	.3602	12
9	.0001	.0016	.0064	.0187	.0425	.0824	.1412	.2199	.3150	.4217	.5983	.4892	11
10		.0005	.0024	.0081	.0203	.0431	.0802	.1352	.2083	.2986	.4016	.6187	10
11		.0001	.0008	.0032	.0089	.0207	.0418	.0765	.1271	.1957	.2815	.3811	9
12			.0002	.0012	.0036	.0091	.0199	.0396	.0710	.1178	.1819	.2534	8
13				.0004	.0013	.0036	.0085	.0186	.0360	.0644	.1072	.1667	7
14				.0001	.0004	.0013	.0032	.0078	.0163	.0316	.0568	.0953	6
15					.0001	.0004	.0010	.0029	.0065	.0136	.0266	.0483	5
16						.0001	.0002	.0009	.0022	.0050	.0107	.0212	4
17								.0002	.0006	.0015	.0035	.0077	3
18									.0001	.0003	.0008	.0022	2
19											.0001	.0004	1
20													0
	23	22	21	20	19	18	17	16	15	14	13	12	p\r

n=23, m=21

r\p	0	1	2	3	4	5	6	7	8	9	10	11	
0	.5333	.2788	.1426	.0713	.0348	.0165	.0076	.0034	.0015	.0006	.0003	.0001	21
1	.4667	.7212	.3566	.2174	.1261	.0699	.0371	.0189	.0092	.0043	.0019	.0008	20
2	.2121	.4489	.6434	.4001	.2666	.1683	.1009	.0576	.0314	.0162	.0080	.0037	19
3	.0937	.2544	.4347	.5999	.4305	.3029	.2019	.1277	.0767	.0437	.0236	.0121	18
4	.0402	.1342	.2694	.4220	.5695	.4545	.3318	.2298	.1509	.0940	.0554	.0308	17
5	.0167	.0666	.1550	.2744	.4100	.5456	.4746	.3559	.2534	.1711	.1094	.0661	16
6	.0067	.0313	.0834	.1660	.2744	.3984	.5254	.4926	.3769	.2740	.1889	.1231	15
7	.0026	.0139	.0421	.0937	.1712	.2714	.3868	.5074	.5091	.3956	.2922	.2045	14
8	.0009	.0058	.0199	.0494	.0996	.1725	.2663	.3752	.4909	.5248	.4128	.3087	13
9	.0003	.0023	.0089	.0244	.0540	.1022	.1710	.2594	.3632	.4752	.5401	.4290	12
10	.0001	.0009	.0037	.0112	.0272	.0563	.1021	.1672	.2512	.3507	.4599	.5554	11
11		.0003	.0014	.0048	.0128	.0287	.0566	.1000	.1616	.2416	.3377	.4446	10
12		.0001	.0005	.0019	.0055	.0135	.0289	.0552	.0962	.1543	.2307	.3237	9
13			.0002	.0007	.0022	.0058	.0135	.0279	.0525	.0907	.1455	.2184	8
14			.0001	.0002	.0008	.0023	.0057	.0128	.0261	.0485	.0838	.1351	7
15				.0001	.0002	.0008	.0022	.0053	.0116	.0234	.0435	.0756	6
16					.0001	.0002	.0007	.0019	.0046	.0099	.0200	.0376	5
17						.0001	.0002	.0006	.0015	.0036	.0080	.0162	4
18							.0001	.0002	.0004	.0011	.0026	.0058	3
19									.0001	.0003	.0007	.0016	2
20											.0001	.0003	1
21													0
	23	22	21	20	19	18	17	16	15	14	13	12	p\r

n=23, m=22

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	
0	.5218	.2667	.1333	.0651	.0310	.0144	.0065	.0028	.0012	.0005	.0002	.0001	22
1	.4783	.7333	.3380	.2016	.1142	.0618	.0320	.0159	.0075	.0034	.0015	.0006	21
2	.2232	.4667	.6620	.3763	.2452	.1512	.0884	.0492	.0261	.0131	.0063	.0028	20
3	.1015	.2713	.4574	.6237	.4020	.2766	.1800	.1110	.0649	.0360	.0189	.0094	19
4	.0448	.1473	.2910	.4490	.5980	.4215	.3007	.2031	.1299	.0787	.0450	.0243	18
5	.0192	.0754	.1724	.3001	.4412	.5785	.4374	.3203	.2222	.1460	.0906	.0530	17
6	.0080	.0366	.0958	.1872	.3039	.4336	.5626	.4510	.3366	.2382	.1595	.1008	16
7	.0032	.0169	.0502	.1094	.1959	.3045	.4260	.5490	.4631	.3506	.2518	.1709	15
8	.0012	.0074	.0248	.0600	.1182	.2004	.3030	.4183	.5369	.4742	.3630	.2634	14
9	.0005	.0031	.0115	.0309	.0669	.1235	.2020	.2997	.4104	.5258	.4848	.3741	13
10	.0002	.0012	.0051	.0149	.0354	.0712	.1261	.2013	.2951	.4022	.5152	.4950	12
11	.0001	.0005	.0021	.0068	.0175	.0383	.0734	.1263	.1986	.2891	.3935	.5050	11
12		.0002	.0008	.0028	.0080	.0191	.0397	.0737	.1246	.1942	.2819	.3842	10
13		.0001	.0003	.0011	.0034	.0088	.0199	.0398	.0724	.1212	.1881	.2734	9
14			.0001	.0004	.0013	.0037	.0091	.0198	.0387	.0696	.1160	.1804	8
15				.0001	.0005	.0014	.0038	.0089	.0189	.0365	.0654	.1092	7
16					.0002	.0005	.0014	.0036	.0083	.0172	.0333	.0599	6
17						.0002	.0005	.0013	.0032	.0072	.0150	.0292	5
18							.0001	.0004	.0011	.0026	.0059	.0123	4
19								.0001	.0003	.0008	.0019	.0044	3
20									.0001	.0002	.0005	.0012	2
21											.0001	.0002	1
22													0
	23	22	21	20	19	18	17	16	15	14	13	12	p \ r

n=23, m=23

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	
0	.5108	.2554	.1248	.0596	.0277	.0125	.0055	.0023	.0009	.0004	.0001		23
1	.4891	.5164	.3206	.1870	.1036	.0547	.0276	.0133	.0061	.0027	.0011	.0004	22
2	.2337	.4833	.5209	.3539	.2257	.1359	.0776	.0421	.0216	.0106	.0049	.0021	21
3	.1089	.2876	.4788	.5250	.3753	.2525	.1605	.0965	.0548	.0296	.0150	.0072	20
4	.0493	.1602	.3119	.4749	.5288	.3906	.2725	.1796	.1118	.0659	.0366	.0191	19
5	.0216	.0843	.1897	.3253	.4711	.5325	.4025	.2878	.1946	.1244	.0750	.0425	18
6	.0091	.0421	.1085	.2087	.3330	.4673	.5362	.4119	.3000	.2067	.1345	.0823	17
7	.0036	.0200	.0585	.1258	.2210	.3373	.4634	.5398	.4199	.3099	.2164	.1423	16
8	.0013	.0090	.0297	.0714	.1379	.2291	.3393	.4599	.5437	.4268	.3180	.2238	15
9	.0004	.0038	.0142	.0382	.0809	.1463	.2339	.3400	.4561	.5478	.4329	.3244	14
10	.0001	.0015	.0063	.0192	.0446	.0878	.1517	.2368	.3392	.4520	.5521	.4382	13
11		.0005	.0028	.0090	.0230	.0494	.0922	.1549	.2376	.3371	.4478	.5565	12
12		.0001	.0011	.0039	.0111	.0260	.0524	.0949	.1561	.2365	.3340	.4432	11
13			.0004	.0015	.0049	.0127	.0277	.0542	.0957	.1552	.2339	.3299	10
14			.0001	.0005	.0020	.0057	.0135	.0286	.0544	.0947	.1527	.2298	9
15				.0001	.0007	.0023	.0060	.0139	.0285	.0533	.0922	.1485	8
16					.0002	.0008	.0024	.0061	.0136	.0274	.0509	.0881	7
17						.0002	.0008	.0024	.0058	.0127	.0254	.0474	6
18							.0002	.0008	.0022	.0052	.0112	.0227	5
19								.0002	.0007	.0018	.0042	.0094	4
20									.0002	.0005	.0013	.0032	3
21										.0001	.0003	.0008	2
22												.0001	1
23													0
	23	22	21	20	19	18	17	16	15	14	13	12	p \ r

n=24, m=5

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	
0	.8331	.6894	.5665	.4615	.3728	.2983	.2361	.1848	.1427	.1088	.0816	.0601	.0434	5
1	.1666	.3102	.4334	.5384	.6271	.6712	.5954	.5208	.4486	.3808	.3178	.2605	.2094	4
2	.0230	.0639	.1187	.1833	.2543	.3288	.4045	.4791	.5510	.6957	.6326	.5670	.5000	3
3	.0025	.0092	.0219	.0413	.0679	.1019	.1432	.1912	.2451	.3042	.3673	.4329	.5000	2
4	.0002	.0008	.0025	.0058	.0112	.0194	.0312	.0472	.0680	.0943	.1265	.1647	.2094	1
5			.0001	.0004	.0009	.0017	.0032	.0055	.0090	.0140	.0211	.0306	.0434	0
	24	23	22	21	20	19	18	17	16	15	14	13	12	p \ r

n=24, m=10

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	
0	.7143	.5042	.3514	.2416	.1636	.1091	.0715	.0459	.0289	.0178	.0107	.0062	.0035	10
1	.2856	.4956	.6485	.5533	.4363	.3349	.2502	.1821	.1291	.0890	.0696	.0387	.0243	9
2	.0755	.1901	.3190	.4465	.5635	.5887	.4885	.3942	.3094	.2359	.1846	.1252	.0867	8
3	.0182	.0612	.1277	.2127	.3096	.4112	.5114	.6205	.5297	.4403	.3657	.2789	.2116	7
4	.0039	.0169	.0427	.0837	.1403	.2105	.2915	.3794	.4701	.6516	.5771	.4806	.3956	6
5	.0007	.0040	.0119	.0273	.0525	.0889	.1375	.1980	.2689	.3484	.4328	.6845	.6042	5
6	.0001	.0008	.0027	.0073	.0160	.0306	.0528	.0844	.1262	.1792	.2426	.3154	.3956	4
7		.0001	.0004	.0015	.0039	.0083	.0160	.0285	.0470	.0735	.1091	.1550	.2116	3
8				.0002	.0007	.0017	.0036	.0072	.0131	.0227	.0371	.0579	.0867	2
9					.0001	.0002	.0005	.0012	.0024	.0047	.0085	.0147	.0243	1
10								.0001	.0002	.0005	.0010	.0019	.0035	0
	24	23	22	21	20	19	18	17	16	15	14	13	12	p \ r

n=24, m=15

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	
0	.6250	.3846	.2328	.1384	.0807	.0461	.0258	.0140	.0075	.0038	.0019	.0009	.0004	15
1	.3748	.6152	.5159	.3691	.2537	.1683	.1078	.0667	.0400	.0230	.0128	.0069	.0035	14
2	.1344	.3116	.4841	.6309	.4675	.3498	.2514	.1739	.1159	.0742	.0456	.0270	.0152	13
3	.0459	.1393	.2638	.4001	.5325	.5463	.4320	.3287	.2407	.1693	.1143	.0740	.0458	12
4	.0148	.0563	.1274	.2236	.3360	.4537	.5679	.5049	.4012	.3067	.2253	.1587	.1070	11
5	.0044	.0207	.0552	.1113	.1886	.2825	.3873	.4950	.5712	.4695	.3718	.2830	.2065	10
6	.0012	.0069	.0215	.0496	.0945	.1570	.2365	.3288	.4288	.5305	.5345	.4361	.3422	9
7	.0002	.0020	.0075	.0197	.0422	.0777	.1288	.1955	.2763	.3677	.4654	.5971	.5000	8
8		.0005	.0023	.0069	.0167	.0340	.0622	.1032	.1586	.2282	.3108	.4028	.5000	7
9		.0001	.0006	.0021	.0058	.0130	.0263	.0478	.0802	.1251	.1843	.2571	.3422	6
10			.0001	.0005	.0017	.0042	.0096	.0191	.0351	.0595	.0953	.1438	.2065	5
11				.0001	.0004	.0011	.0029	.0064	.0130	.0239	.0419	.0687	.1070	4
12					.0001	.0002	.0007	.0017	.0039	.0078	.0151	.0270	.0458	3
13							.0001	.0003	.0009	.0019	.0042	.0082	.0152	2
14									.0001	.0003	.0008	.0017	.0035	1
15											.0001	.0002	.0004	0
	24	23	22	21	20	19	18	17	16	15	14	13	12	p \ r

n=24, m=18

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	
0	.5814	.3322	.1864	.1025	.0552	.0291	.0149	.0075	.0036	.0017	.0008	.0003	.0001	18
1	.4186	.6678	.4380	.2917	.1859	.1138	.0671	.0382	.0209	.0110	.0056	.0027	.0013	17
2	.1694	.3760	.5620	.5034	.3661	.2540	.1686	.1072	.0653	.0382	.0213	.0114	.0058	16
3	.0661	.1901	.3427	.4966	.5530	.4248	.3118	.2188	.1469	.0943	.0578	.0338	.0188	15
4	.0248	.0884	.1888	.3136	.4470	.5752	.4745	.3626	.2652	.1854	.1238	.0788	.0477	14
5	.0089	.0382	.0952	.1801	.2869	.4056	.5255	.5185	.4087	.3086	.2228	.1535	.1006	13
6	.0031	.0154	.0442	.0947	.1682	.2617	.3689	.4815	.5589	.4516	.3499	.2593	.1831	12
7	.0010	.0058	.0190	.0457	.0902	.1545	.2375	.3351	.4411	.5969	.4924	.3899	.2951	11
8	.0003	.0020	.0075	.0202	.0443	.0834	.1399	.2140	.3032	.4031	.5076	.5320	.4290	10
9	.0001	.0007	.0027	.0082	.0198	.0410	.0751	.1247	.1908	.2724	.3665	.4680	.5710	9
10		.0002	.0009	.0030	.0081	.0183	.0366	.0660	.1092	.1679	.2424	.3307	.4290	8
11		.0001	.0003	.0010	.0030	.0073	.0160	.0314	.0563	.0935	.1453	.2127	.2951	7
12			.0001	.0003	.0010	.0026	.0062	.0133	.0258	.0464	.0779	.1228	.1831	6
13				.0001	.0003	.0008	.0021	.0049	.0104	.0202	.0367	.0625	.1006	5
14					.0001	.0002	.0006	.0015	.0035	.0075	.0148	.0274	.0477	4
15						.0001	.0001	.0004	.0010	.0023	.0049	.0099	.0188	3
16								.0001	.0002	.0006	.0013	.0028	.0058	2
17										.0001	.0002	.0006	.0013	1
18												.0001	.0001	0
	24	23	22	21	20	19	18	17	16	15	14	13	12	p \ r

n=24, m=19

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	
0	.5682	.3171	.1737	.0932	.0489	.0251	.0125	.0061	.0029	.0013	.0006	.0003	.0001	19
1	.4318	.6829	.4151	.2702	.1681	.1004	.0576	.0319	.0170	.0087	.0043	.0020	.0009	18
2	.1808	.3960	.5849	.4745	.3374	.2285	.1478	.0915	.0542	.0308	.0167	.0086	.0043	17
3	.0732	.2070	.3676	.5255	.5190	.3899	.2792	1909	1246	.0777	.0462	.0262	.0141	16
4	.0286	.1000	.2097	.3427	.4810	.5559	.4338	.3234	.2302	.1564	.1013	.0625	.0365	15
5	.0107	.0450	.1100	.2044	.3197	.4441	.5662	.4725	.3631	.2666	.1868	.1246	.0790	14
6	.0039	.0190	.0535	.1121	.1952	.2976	.4116	.5275	.5077	.3997	.3008	.2160	.1475	13
7	.0013	.0076	.0241	.0568	.1097	.1837	.2763	.3816	.4923	.5408	.6992	.3335	.2442	12
8	.0004	.0028	.0101	.0266	.0568	.1044	.1709	.2552	.3533	.4592	.5658	.4674	.3651	11
9	.0001	.0010	.0039	.0115	.0271	.0545	.0972	.1571	.2342	.3259	.4274	.6038	.5000	10
10		.0003	.0014	.0046	.0118	.0260	.0506	.0886	.1426	.2130	.2988	.3962	.5000	9
11		.0001	.0005	.0017	.0047	.0113	.0239	.0455	.0791	.1273	.1916	.2717	.3651	8
12			.0001	.0005	.0017	.0044	.0102	.0211	.0397	.0689	.1116	.1698	.2442	7
13				.0002	.0006	.0016	.0039	.0087	.0177	.0333	.0582	.0954	.1475	6
14					.0002	.0005	.0013	.0031	.0070	.0141	.0267	.0473	.0790	5
15						.0001	.0004	.0010	.0023	.0051	.0105	.0202	.0365	4
16							.0001	.0003	.0007	.0015	.0034	.0072	.0141	3
17								.0001	.0001	.0004	.0009	.0020	.0043	2
18										.0001	.0002	.0004	.0009	1
19													.0001	0
	24	23	22	21	20	19	18	17	16	15	14	13	12	p \ r

n=24, m=20

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	
0	.5555	.3030	.1621	.0849	.0435	.0217	.0106	.0050	.0023	.0010	.0004	.0002	.0001	20
1	.4442	.6967	.3936	.2505	.1522	.0886	.0496	.0267	.0138	.0068	.0032	.0015	.0007	19
2	.1917	.4149	.6061	.4472	.3111	.2057	.1298	.0782	.0451	.0248	.0130	.0066	.0032	18
3	.0801	.2237	.3915	.5526	.4867	.3576	.2501	.1665	.1058	.0640	.0369	.0203	.0106	17
4	.0323	.1117	.2305	.3710	.5132	.5190	.3961	.2877	.1996	.1318	.0828	.0495	.0281	16
5	.0125	.0523	.1253	.2288	.3518	.4810	.5473	.4291	.3216	.2298	.1563	.1011	.0620	15
6	.0046	.0230	.0633	.1304	.2226	.3334	.4526	.5726	.4594	.3522	.2577	.1794	.1185	14
7	.0016	.0095	.0298	.0689	.1304	.2141	.3152	.4271	.5403	.4874	.3808	.2838	.2011	13
8	.0005	.0037	.0130	.0338	.0708	.1273	.2035	.2974	.4025	.5126	.5141	.4078	.3086	12
9	.0001	.0013	.0052	.0153	.0356	.0700	.1216	.1920	.2790	.3793	.4858	.5401	.4340	11
10		.0004	.0019	.0064	.0165	.0355	.0670	.1145	.1790	.2607	.3559	.4598	.5659	10
11		.0001	.0006	.0024	.0070	.0165	.0339	.0628	.1057	.1654	.2416	.3325	.4340	9
12			.0001	.0008	.0027	.0070	.0156	.0314	.0570	.0961	.1507	.2218	.3086	8
13				.0002	.0009	.0027	.0065	.0142	.0278	.0507	.0855	.1350	.2011	7
14					.0002	.0009	.0024	.0057	.0121	.0240	.0435	.0739	.1185	6
15						.0002	.0008	.0020	.0046	.0100	.0195	.0358	.0620	5
16							.0002	.0006	.0015	.0035	.0075	.0149	.0281	4
17								.0001	.0004	.0010	.0024	.0051	.0106	3
18									.0001	.0002	.0006	.0013	.0032	2
19											.0001	.0002	.0007	1
20													.0001	0
	24	23	22	21	20	19	18	17	16	15	14	13	12	p \ r

n=24, m=21

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	
0	.5435	.2899	.1515	.0775	.0388	.0189	.0090	.0042	.0019	.0008	.0003	.0001	.0001	21
1	.4565	.7102	.3735	.2326	.1380	.0785	.0428	.0225	.0113	.0055	.0025	.0011	.0005	20
2	.2029	.4335	.6265	.4216	.2869	.1854	.1141	.0671	.0376	.0202	.0103	.0050	.0023	19
3	.0876	.2404	.4151	.5784	.4562	.3279	.2239	.1455	.0900	.0530	.0297	.0158	.0080	18
4	.0367	.1240	.2518	.3987	.5439	.4839	.3611	.2564	.1732	.1113	.0680	.0394	.0216	17
5	.0148	.0601	.1416	.2537	.3835	.5161	.5078	.3895	.2846	.1980	.1309	.0821	.0487	16
6	.0058	.0275	.0743	.1498	.2509	.3688	.4922	.5293	.4146	.3098	.2203	.1488	.0952	15
7	.0022	.0119	.0365	.0825	.1527	.2453	.3542	.4707	.5493	.4375	.3327	.2407	.1653	14
8	.0008	.0049	.0169	.0424	.0865	.1519	.2377	.3397	.4507	.5686	.4591	.3539	.2596	13
9	.0003	.0019	.0073	.0203	.0456	.0875	.1485	.2287	.3249	.4314	.5876	.4797	.3741	12
10	.0001	.0007	.0030	.0091	.0224	.0468	.0862	.1432	.2184	.3096	.4124	.6065	.5000	11
11		.0002	.0011	.0038	.0102	.0232	.0463	.0830	.1362	.2069	.2938	.3935	.5000	10
12		.0001	.0004	.0015	.0043	.0106	.0229	.0444	.0784	.1278	.1942	.2772	.3741	9
13			.0001	.0005	.0016	.0044	.0103	.0217	.0413	.0724	.1181	.1804	.2596	8
14				.0002	.0006	.0017	.0042	.0096	.0198	.0373	.0654	.1072	.1653	7
15					.0002	.0016	.0038	.0085	.0172	.0326	.0575	.0952	6
16						.0002	.0005	.0013	.0032	.0070	.0143	.0273	.0487	5
17							.0001	.0004	.0010	.0025	.0054	.0112	.0216	4
18								.0001	.0003	.0007	.0017	.0038	.0080	3
19									.0001	.0002	.0004	.0010	.0023	2
20											.0001	.0002	.0005	1
21													.0001	0
	24	23	22	21	20	19	18	17	16	15	14	13	12	p \ r

n=24, m=22

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	
0	.5319	.2775	.1418	.0709	.0346	.0165	.0076	.0034	.0015	.0006	.0003	.0001		22
1	.4681	.7224	.3546	.2161	.1254	.0696	.0371	.0190	.0093	.0044	.0020	.0009	.0004	21
2	.2137	.4511	.6453	.3975	.2647	.1672	.1005	.0576	.0315	.0164	.0082	.0039	.0017	20
3	.0950	.2568	.4375	.5745	.4274	.3006	.2005	.1271	.0766	.0440	.0240	.0124	.0061	19
4	.0410	.1364	.2726	.4255	.5727	.4507	.3290	.2281	.1502	.0939	.0558	.0314	.0167	18
5	.0172	.0682	.1579	.2784	.4142	.5493	.4703	.3526	.2514	.1703	.1095	.0666	.0383	17
6	.0069	.0323	.0857	.1697	.2791	.4032	.5297	.4876	.3731	.2717	.1880	.1232	.0764	16
7	.0027	.0146	.0437	.0968	.1757	.2768	.3924	.5124	.5035	.3913	.2896	.2036	.1355	15
8	.0010	.0062	.0211	.0518	.1034	.1777	.2724	.3815	.4965	.5184	.4080	.3058	.2175	14
9	.0004	.0025	.0095	.0260	.0569	.1067	.1770	.2665	.3703	.4816	.5329	.4235	.3205	13
10	.0001	.0010	.0041	.0122	.0293	.0598	.1074	.1741	.2591	.3588	.4671	.5472	.4384	12
11		.0004	.0016	.0054	.0141	.0312	.0607	.1061	.1694	.2506	.3468	.4528	.5616	11
12		.0001	.0006	.0022	.0063	.0151	.0318	.0600	.1030	.1631	.2408	.3341	.4384	10
13			.0002	.0008	.0026	.0068	.0154	.0313	.0578	.0983	.1553	.2298	.3205	9
14			.0001	.0003	.0010	.0028	.0068	.0150	.0298	.0545	.0923	.1461	.2175	8
15				.0001	.0003	.0010	.0028	.0065	.0140	.0275	.0500	.0850	.1355	7
16					.0001	.0003	.0010	.0025	.0059	.0125	.0244	.0446	.0764	6
17						.0001	.0003	.0009	.0022	.0050	.0105	.0208	.0383	5
18							.0001	.0003	.0007	.0017	.0039	.0083	.0167	4
19								.0001	.0002	.0005	.0012	.0028	.0061	3
20										.0001	.0003	.0007	.0017	2
21												.0001	.0004	1
22														0
	24	23	22	21	20	19	18	17	16	15	14	13	12	p \ r

n=24, m=23

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	
0	.5208	.2660	.1330	.0650	.0310	.0144	.0065	.0029	.0012	.0005	.0002	.0001		23
1	.4793	.7340	.3369	.2009	.1140	.0619	.0322	.0161	.0077	.0035	.0016	.0006	.0003	22
2	.2244	.4681	.6631	.3748	.2444	.1509	.0886	.0495	.0264	.0134	.0065	.0030	.0013	21
3	.1024	.2730	.4592	.6252	.4003	.2756	.1797	.1112	.0654	.0365	.0194	.0097	.0046	20
4	.0455	.1489	.2933	.4513	.5997	.4195	.2996	.2028	.1303	.0794	.0459	.0250	.0129	19
5	.0197	.0768	.1747	.3029	.4439	.5806	.4350	.3189	.2219	.1464	.0916	.0541	.0302	18
6	.0082	.0376	.0978	.1901	.3072	.4367	.5650	.4483	.3351	.2379	.1602	.1020	.0613	17
7	.0033	.0175	.0517	.1120	.1993	.3084	.4296	.5518	.4600	.3490	.2516	.1718	.1109	16
8	.0013	.0078	.0258	.0621	.1214	.2045	.3074	.4224	.5400	.4708	.3612	.2632	.1816	15
9	.0005	.0033	.0122	.0324	.0695	.1274	.2068	.3048	.4150	.5292	.4809	.3720	.2733	14
10	.0002	.0013	.0054	.0159	.0374	.0744	.1306	.2068	.3008	.4074	.5191	.4905	.3819	13
11	.0001	.0005	.0023	.0073	.0188	.0407	.0772	.1316	.2049	.2957	.3994	.5095	.5000	12
12		.0002	.0009	.0032	.0089	.0208	.0427	.0782	.1307	.2014	.2894	.3910	.5000	11
13		.0001	.0003	.0013	.0039	.0099	.0219	.0433	.0776	.1280	.1963	.2820	.3819	10
14			.0001	.0005	.0016	.0043	.0104	.0222	.0427	.0755	.1238	.1897	.2733	9
15				.0002	.0006	.0018	.0045	.0104	.0216	.0410	.0720	.1181	.1816	8
16				.0001	.0002	.0006	.0018	.0045	.0099	.0203	.0383	.0673	.1109	7
17					.0001	.0002	.0006	.0017	.0041	.0090	.0183	.0347	.0613	6
18						.0001	.0002	.0006	.0015	.0035	.0078	.0159	.0302	5
19							.0001	.0002	.0005	.0012	.0028	.0063	.0129	4
20									.0001	.0003	.0009	.0021	.0046	3
21										.0001	.0002	.0005	.0013	2
22												.0001	.0003	1
23														0
	24	23	22	21	20	19	18	17	16	15	14	13	12	p \ r

n=24, m=24

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	
0	.5102	.2551	.1248	.0597	.0279	.0127	.0056	.0024	.0010	.0004	.0001			24
1	.4897	.5157	.3202	.1871	.1039	.0551	.0280	.0136	.0064	.0028	.0012	.0004	.0002	23
2	.2346	.4842	.5199	.3535	.2258	.1364	.0782	.0426	.0222	.0109	.0052	.0022	.0010	22
3	.1098	.2888	.4798	.5238	.3748	.2527	.1611	.0972	.0558	.0303	.0157	.0075	.0035	21
4	.0501	.1614	.3134	.4760	.5274	.3901	.2726	.1802	.1130	.0670	.0377	.0199	.0100	20
5	.0222	.0854	.1915	.3270	.4721	.5311	.4018	.2879	.1957	.1258	.0766	.0439	.0238	19
6	.0095	.0430	.1102	.2107	.3347	.4683	.5345	.4111	.3004	.2079	.1363	.0843	.0492	18
7	.0039	.0206	.0600	.1278	.2232	.3391	.4653	.5378	.4191	.3103	.2179	.1446	.0906	17
8	.0015	.0094	.0309	.0731	.1402	.2314	.3421	.4619	.5415	.4259	.3185	.2258	.1512	16
9	.0005	.0040	.0151	.0395	.0830	.1487	.2374	.3432	.4581	.5452	.4318	.3253	.2320	15
10	.0001	.0016	.0070	.0201	.0463	.0899	.1553	.2408	.3425	.4545	.5490	.4372	.3308	14
11		.0006	.0030	.0096	.0243	.0510	.0956	.1592	.2419	.3412	.4508	.5533	.4420	13
12		.0002	.0012	.0043	.0119	.0270	.0552	.0989	.1608	.2417	.3389	.4465	.5577	12
13			.0004	.0018	.0054	.0132	.0298	.0575	.1002	.1609	.2401	.3353	.4420	11
14			.0001	.0007	.0022	.0058	.0150	.0312	.0582	.1001	.1594	.2367	.3308	10
15				.0002	.0008	.0021	.0070	.0157	.0313	.0578	.0985	.1560	.2320	9
16					.0002	.0004	.0030	.0073	.0155	.0307	.0562	.0952	.1512	8
17						.0001	.0012	.0031	.0070	.0149	.0293	.0532	.0906	7
18							.0004	.0012	.0028	.0065	.0138	.0269	.0492	6
19							.0001	.0004	.0010	.0025	.0057	.0121	.0238	5
20								.0001	.0003	.0008	.0020	.0047	.0100	4
21									.0001	.0002	.0006	.0015	.0035	3
22											.0001	.0004	.0010	2
23												.0001	.0002	1
24														0
	24	23	22	21	20	19	18	17	16	15	14	13	12	p \ r

n=25, m=5

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	
0	.8387	.6989	.5784	.4751	.3871	.3127	.2502	.1980	.1550	.1197	.0912	.0684	.0504	5
1	.1612	.3009	.4215	.5248	.6127	.6879	.6150	.5424	.4720	.4048	.3421	.2845	.3224	4
2	.0214	.0599	.1116	.1729	.2405	.3121	.3850	.4575	.5279	.7184	.6591	.5966	.5324	3
3	.0021	.0083	.0198	.0375	.0618	.0932	.1312	.1757	.2260	.2814	.3408	.4032	.4676	2
4	.0001	.0007	.0022	.0050	.0097	.0171	.0274	.0415	.0600	.0833	.1119	.1461	.1864	1
5			.0001	.0003	.0007	.0015	.0027	.0046	.0076	.0118	.0176	.0257	.0364	0
	25	24	23	22	21	20	19	18	17	16	15	14	13	p \ r

n=25, m=10

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	
0	.7222	.5159	.3641	.2538	.1745	.1182	.0788	.0516	.0332	.0209	.0128	.0077	.0045	10
1	.2777	.4841	.6358	.5710	.4559	.3546	.2690	.1991	.1438	.1013	.0694	.0463	.0299	9
2	.0714	.1807	.3048	.4290	.5440	.6114	.5136	.4204	.3353	.2605	.1967	.1444	.1027	8
3	.0168	.0566	.1186	.1987	.2907	.3886	.4864	.6473	.5600	.4727	.3886	.3109	.2415	7
4	.0036	.0152	.0385	.0759	.1277	.1930	.2690	.3525	.4399	.5272	.6023	.5190	.4458	6
5	.0007	.0035	.0105	.0240	.0462	.0789	.1227	.1778	.2433	.3147	.3976	.4810	.6544	5
6	.0001	.0007	.0024	.0062	.0136	.0262	.0454	.0730	.1100	.1571	.2144	.2812	.3555	4
7		.0001	.0005	.0013	.0032	.0069	.0132	.0236	.0393	.0617	.0923	.1322	.1817	3
8			.0001	.0002	.0006	.0014	.0028	.0057	.0105	.0181	.0299	.0470	.0707	2
9					.0001	.0002	.0004	.0009	.0019	.0035	.0065	.0113	.0187	1
10								.0001	.0002	.0003	.0007	.0014	.0025	0
	25	24	23	22	21	20	19	18	17	16	15	14	13	p \ r

n=25, m=15

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	
0	.6341	.3963	.2439	.1476	.0878	.0512	.0292	.0163	.0089	.0047	.0024	.0012	.0006	15
1	.3657	.6036	.5327	.3870	.2707	.1829	.1195	.0757	.0465	.0276	.0158	.0088	.0047	14
2	.1279	.2987	.4671	.6130	.4901	.3726	.2729	.1927	.1314	.0864	.0548	.0334	.0196	13
3	.0425	.1302	.2485	.3803	.5099	.5719	.4598	.3563	.1664	.1919	.1332	.0888	.0569	12
4	.0133	.0513	.1170	.2074	.3141	.4280	.5399	.5363	.3340	.3388	.2552	.1847	.1285	11
5	.0039	.0184	.0494	.1006	.1717	.2598	.3591	.4633	.5051	.5065	.4100	.3198	.2401	10
6	.0010	.0060	.0188	.0437	.0836	.1404	.2132	.2994	.3946	.4932	.5751	.4792	.3857	9
7	.0002	.0018	.0064	.0170	.0362	.0675	.1126	.1727	.2467	.3320	.4248	.6496	.5473	8
8		.0005	.0019	.0059	.0139	.0287	.0526	.0882	.1370	.1994	.2745	.3600	.4525	7
9		.0001	.0005	.0018	.0047	.0107	.0215	.0395	.0668	.1055	.1569	.2215	.2986	6
10			.0001	.0005	.0014	.0034	.0075	.0152	.0281	.0483	.0779	.1189	.1729	5
11				.0001	.0004	.0009	.0022	.0049	.0099	.0187	.0327	.0543	.0856	4
12					.0001	.0002	.0005	.0012	.0028	.0059	.0112	.0203	.0349	3
13							.0001	.0002	.0006	.0014	.0029	.0058	.0110	2
14									.0001	.0002	.0005	.0011	.0024	1
15												.0001	.0003	0
	25	24	23	22	21	20	19	18	17	16	15	14	13	p \ r

n=25, m=19

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	
0	.5778	.3283	.1832	.1003	.0538	.0283	.0145	.0073	.0035	.0017	.0008	.0003	.0001	19
1	.4222	.6717	.4319	.2863	.1817	.1109	.0652	.0370	.0203	.0107	.0054	.0027	.0012	18
2	.1727	.3816	.6581	.4956	.3588	.2479	.1640	.1040	.0634	.0370	.0208	.0111	.0057	17
3	.0683	.1951	.3498	.5044	.5436	.4157	.3038	.2125	.1423	.0913	.0560	.0329	.0184	16
4	.0260	.0920	.1951	.3220	.4564	.5843	.4637	.3528	.2572	.1794	.1197	.0763	.0463	15
5	.0095	.0404	.0999	.1876	.2966	.4165	.5363	.5060	.3971	.2988	.2152	.1481	.0972	14
6	.0033	.0167	.0473	.1004	.1767	.2726	.3812	.4940	.5446	.4381	.3382	.2499	.1764	13
7	.0011	.0064	.0208	.0496	.0968	.1640	.2496	.3489	.4554	.5808	.4768	.3760	.2839	12
8	.0004	.0023	.0085	.0226	.0487	.0907	.1503	.2271	.3184	.4192	.5232	.5142	.4128	11
9	.0001	.0008	.0032	.0095	.0226	.0460	.0830	.1358	.2051	.2892	.3846	.4859	.5507	10
10		.0002	.0011	.0036	.0095	.0213	.0419	.0743	.1210	.1833	.2607	.3508	.4493	9
11		.0001	.0004	.0013	.0037	.0090	.0192	.0369	.0649	.1059	.1616	.2326	.3174	8
12			.0001	.0004	.0013	.0034	.0079	.0165	.0314	.0552	.0907	.1401	.2045	7
13				.0001	.0004	.0011	.0029	.0066	.0135	.0257	.0455	.0756	.1186	6
14					.0001	.0003	.0009	.0023	.0051	.0105	.0200	.0359	.0607	5
15						.0001	.0003	.0007	.0016	.0036	.0076	.0146	.0268	4
16							.0001	.0002	.0004	.0010	.0024	.0049	.0098	3
17									.0001	.0002	.0006	.0013	.0028	2
18											.0001	.0002	.0006	1
19													.0001	0
	25	24	23	22	21	20	19	18	17	16	15	14	13	p \ r

n=25, m=20

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	
0	.5652	.3140	.1713	.0916	.0480	.0246	.0123	.0060	.0028	.0013	.0005	.0002	.0001	20
1	.4347	.6859	.4103	.2661	.1650	.0983	.0564	.0312	.0166	.0085	.0041	.0019	.0009	19
2	.1835	.4004	.5895	.4683	.3318	.2240	.1446	.0895	.0530	.0301	.0163	.0085	.0042	18
3	.0750	.2112	.3733	.5216	.5114	.3828	.2734	.1366	.1217	.0759	.0451	.0257	.0139	17
4	.0296	.1031	.2151	.3397	.4885	.5470	.4254	.3163	.2247	.1525	.0987	.0611	.0359	16
5	.0112	.0471	.1143	.2009	.3277	.4528	.5784	.4628	.3545	.2598	.1818	.1215	.0772	15
6	.0040	.0202	.0564	.1074	.2026	.3069	.4215	.5371	.4965	.3896	.2926	.2100	.1436	14
7	.0013	.0082	.0259	.0606	.1157	.1922	.2866	.3929	.5033	.5281	.4225	.3238	.2371	13
8	.0004	.0031	.0111	.0290	.0611	.1113	.1803	.2667	.3659	.4717	.5582	.4539	.3539	12
9	.0001	.0011	.0044	.0129	.0298	.0595	.1047	.1675	.2468	.3398	.4417	.5874	.4848	11
10		.0004	.0016	.0053	.0134	.0293	.0560	.0969	.1537	.2268	.3144	.4124	.6167	10
11		.0001	.0005	.0020	.0055	.0132	.0274	.0514	.0879	.1393	.2067	.2890	.3831	9
12			.0001	.0007	.0021	.0054	.0122	.0248	.0458	.0781	.1244	.1862	.2632	8
13				.0002	.0007	.0020	.0049	.0108	.0215	.0396	.0679	.1091	.1651	7
14					.0002	.0006	.0017	.0042	.0090	.0179	.0331	.0573	.0932	6
15						.0001	.0005	.0014	.0033	.0070	.0141	.0265	.0465	5
16							.0001	.0004	.0010	.0023	.0051	.0105	.0200	4
17								.0001	.0002	.0006	.0015	.0034	.0071	3
18										.0001	.0003	.0008	.0019	2
19												.0001	.0003	1
20														0
	25	24	23	22	21	20	19	18	17	16	15	14	13	p \ r

n=25, m=21

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	
0	.5532	.3006	.1603	.0838	.0429	.0214	.0105	.0050	.0023	.0010	.0004	.0002	.0001	21
1	.4468	.6993	.3899	.2476	.1501	.0873	.0489	.0264	.0137	.0069	.0033	.0015	.0007	20
2	.1943	.4187	.6101	.4425	.3070	.2026	.1278	.0771	.0445	.0246	.0131	.0066	.0032	19
3	.0820	.2274	.3965	.5575	.4809	.3525	.2460	.1638	.1042	.0633	.0267	.0203	.0107	18
4	.0335	.1147	.2355	.3769	.5191	.5121	.3899	.2831	.1962	.1297	.0818	.0491	.0280	17
5	.0133	.0543	.1294	.2346	.3586	.4879	.5393	.4222	.3158	.2256	.1537	.0997	.0615	16
6	.0050	.0243	.0664	.1354	.2294	.3412	.4607	.5640	.4512	.3455	.2527	.1762	.1169	15
7	.0018	.0103	.0318	.0727	.1362	.2216	.3241	.4360	.5871	.4780	.3728	.2779	.1974	14
8	.0006	.0041	.0143	.0364	.0752	.1338	.2121	.3071	.4128	.5220	.5034	.3988	.3018	13
9	.0002	.0016	.0060	.0170	.0386	.0750	.1290	.2014	.2901	.3906	.4966	.5280	.4236	12
10	.0001	.0006	.0024	.0074	.0184	.0390	.0728	.1226	.1895	.2727	.3687	.4721	.5521	11
11		.0002	.0009	.0030	.0081	.0187	.0379	.0689	.1147	.1768	.2550	.3468	.4479	10
12		.0001	.0003	.0011	.0033	.0083	.0182	.0357	.0639	.1057	.1631	.2366	.3246	9
13			.0001	.0004	.0012	.0033	.0079	.0169	.0325	.0578	.0958	.1486	.2175	8
14				.0001	.0004	.0012	.0031	.0072	.0150	.0287	.0511	.0850	.1332	7
15					.0001	.0004	.0011	.0028	.0062	.0127	.0244	.0437	.0735	6
16						.0001	.0003	.0009	.0022	.0050	.0103	.0198	.0359	5
17							.0001	.0003	.0007	.0017	.0037	.0077	.0152	4
18								.0001	.0002	.0004	.0011	.0025	.0053	3
19										.0001	.0003	.0006	.0015	2
20												.0001	.0003	1
21														0
	25	24	23	22	21	20	19	18	17	16	15	14	13	p \ r

n=25, m=22

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	
0	.5417	.2881	.1503	.0768	.0384	.0188	.0089	.0041	.0019	.0008	.0003	.0001	.0001	22
1	.4583	.7119	.3708	.2305	.1367	.0777	.0425	.0224	.0113	.0055	.0026	.0012	.0005	21
2	.2048	.4363	.6292	.4181	.2841	.1834	.1130	.0665	.0375	.0202	.0104	.0051	.0024	20
3	.0890	.2434	.4187	.5819	.4519	.3244	.2214	.1439	.0893	.0528	.0298	.0160	.0082	19
4	.0376	.1265	.2556	.4032	.5481	.4789	.3569	.2533	.1713	.1104	.0677	.0395	.0219	18
5	.0154	.0619	.1449	.2583	.3887	.5211	.5019	.3845	.2810	.1957	.1297	.0817	.0489	17
6	.0061	.0287	.0769	.1540	.2563	.3748	.4981	.5226	.4089	.3055	.2176	.1474	.0949	16
7	.0023	.0126	.0383	.0858	.1576	.2515	.3611	.4774	.5418	.4311	.3278	.2376	.1638	15
8	.0009	.0053	.0180	.0447	.0905	.1576	.2448	.3474	.4582	.5601	.4517	.2383	.2561	14
9	.0003	.0021	.0079	.0219	.0485	.0921	.1550	.2366	.3336	.4399	.5780	.4713	.3677	13
10	.0001	.0008	.0033	.0100	.0243	.0502	.0915	.1505	.2273	.3194	.4220	.5957	.4905	12
11		.0003	.0013	.0043	.0113	.0255	.0502	.0890	.1443	.2168	.3047	.4043	.6138	11
12		.0001	.0005	.0017	.0049	.0120	.0256	.0488	.0851	.1368	.2052	.2894	.3863	10
13			.0002	.0006	.0020	.0052	.0120	.0247	.0463	.0798	.1280	.1926	.2733	9
14				.0002	.0007	.0021	.0051	.0114	.0230	.0427	.0734	.1181	.1788	8
15				.0001	.0002	.0007	.0020	.0048	.0104	.0207	.0383	.0661	.1071	7
16					.0001	.0002	.0007	.0018	.0042	.0090	.0180	.0333	.0579	6
17						.0001	.0002	.0006	.0015	.0035	.0074	.0148	.0277	5
18							.0001	.0002	.0005	.0011	.0026	.0057	.0115	4
19									.0001	.0003	.0008	.0018	.0040	3
20										.0001	.0002	.0005	.0011	2
21												.0001	.0002	1
22														0
	25	24	23	22	21	20	19	18	17	16	15	14	13	p \ r

n=25, m=23

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	
0	.5306	.2764	.1411	.0706	.0345	.0165	.0077	.0035	.0015	.0007	.0003	.0001		23
1	.4695	.7236	.3527	.2148	.1247	.0693	.0370	.0190	.0094	.0045	.0020	.0009	.0004	22
2	.2151	.4532	.6472	.3951	.2631	.1662	.1000	.0575	.0316	.0166	.0083	.0040	.0018	21
3	.0961	.2591	.4402	.6049	.4245	.2985	.1993	.1266	.0766	.0442	.0243	.0127	.0063	20
4	.0418	.1384	.2756	.4287	.5755	.4473	.3265	.2265	.1495	.0939	.0561	.0318	.0171	19
5	.0176	.0698	.1607	.2820	.4180	.5527	.4664	.3497	.2496	.1696	.1095	.0671	.0390	18
6	.0072	.0334	.0880	.1731	.2833	.4076	.5336	.4832	.3697	.2696	.1871	.1234	.0771	17
7	.0029	.0152	.0454	.0997	.1797	.2817	.3974	.5168	.4984	.3875	.2873	.2027	.1357	16
8	.0011	.0066	.0221	.0539	.1069	.1825	.2780	.3872	.5016	.5127	.4037	.3033	.2166	15
9	.0004	.0027	.0102	.0275	.0597	.1108	.1825	.2728	.3768	.4873	.5265	.4188	.3176	14
10	.0001	.0011	.0044	.0131	.0312	.0631	.1123	.1804	.2663	.3661	.4736	.5400	.4329	13
11		.0004	.0018	.0059	.0153	.0336	.0646	.1116	.1765	.2587	.3550	.4601	.5534	12
12		.0001	.0007	.0025	.0070	.0167	.0346	.0644	.1093	.1711	.2499	.3433	.4466	11
13			.0003	.0010	.0030	.0077	.0173	.0345	.0629	.1054	.1643	.2400	.3309	10
14			.0001	.0004	.0012	.0033	.0079	.0171	.0335	.0601	.1002	.1561	.2289	9
15				.0001	.0004	.0013	.0034	.0078	.0163	.0315	.0562	.0937	.1466	8
16					.0001	.0005	.0013	.0032	.0072	.0150	.0288	.0513	.0860	7
17						.0001	.0005	.0012	.0029	.0064	.0132	.0254	.0455	6
18							.0001	.0004	.0010	.0024	.0054	.0111	.0214	5
19								.0001	.0003	.0008	.0019	.0042	.0087	4
20									.0001	.0002	.0005	.0013	.0030	3
21										.0001	.0001	.0003	.0008	2
22												.0001	.0001	1
23														0
	25	24	23	22	21	20	19	18	17	16	15	14	13	p \ r

n=25, m=24

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	
0	.5200	.2653	.1327	.0649	.0311	.0145	.0066	.0029	.0013	.0005	.0002	.0001		24
1	.4800	.7347	.3359	.2004	.1138	.0619	.0323	.0162	.0078	.0036	.0016	.0007	.0003	23
2	.2253	.4694	.6641	.3735	.2437	.1507	.0887	.0498	.0267	.0137	.0067	.0031	.0014	22
3	.1033	.2747	.4609	.6265	.3987	.2747	.1794	.1114	.0658	.0370	.0198	.0101	.0049	21
4	.0461	.1505	.2953	.4534	.6014	.4176	.2985	.2025	.1306	.0800	.0466	.0257	.0134	20
5	.0201	.0780	.1768	.3054	.4464	.5824	.4328	.3177	.2216	.1469	.0924	.0551	.0311	19
6	.0085	.0385	.0996	.1927	.3103	.4396	.5672	.4458	.3337	.2376	.1607	.1031	.0626	18
7	.0035	.0181	.0530	.1144	.2025	.3119	.4329	.5542	.4572	.3474	.2513	.1726	.1123	17
8	.0014	.0082	.0268	.0640	.1244	.2083	.3115	.4261	.5427	.4676	.3595	.2630	.1826	16
9	.0005	.0035	.0128	.0338	.0720	.1309	.2112	.3094	.4192	.5324	.4773	.3702	.2731	15
10	.0002	.0014	.0058	.0169	.0392	.0774	.1348	.2118	.3061	.4122	.5227	.4866	.3799	14
11	.0001	.0006	.0025	.0079	.0201	.0430	.0808	.1364	.2106	.3016	.4048	.5134	.4955	13
12		.0002	.0010	.0035	.0097	.0224	.0454	.0824	.1361	.2079	.2961	.3970	.5044	12
13		.0001	.0004	.0015	.0044	.0109	.0239	.0465	.0823	.1343	.2036	.2896	.3888	11
14			.0001	.0006	.0018	.0049	.0117	.0244	.0464	.0809	.1309	.1980	.2820	10
15				.0002	.0007	.0021	.0053	.0119	.0242	.0452	.0782	.1261	.1911	9
16				.0001	.0003	.0008	.0022	.0053	.0116	.0232	.0430	.0742	.1199	8
17					.0001	.0003	.0008	.0021	.0051	.0109	.0216	.0399	.0690	7
18						.0001	.0003	.0008	.0020	.0046	.0098	.0193	.0359	6
19							.0001	.0002	.0007	.0017	.0039	.0083	.0166	5
20								.0001	.0002	.0005	.0013	.0031	.0066	4
21									.0001	.0001	.0004	.0010	.0022	3
22											.0001	.0002	.0006	2
23													.0001	1
24														0
	25	24	23	22	21	20	19	18	17	16	15	14	13	p \ r

n=25, m=25

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	
0	.5098	.2549	.1249	.0598	.0280	.0128	.0057	.0024	.0010	.0004	.0001			25
1	.4901	.5150	.3200	.1871	.1041	.0555	.0283	.0138	.0065	.0029	.0012	.0005	.0002	24
2	.2352	.4849	.5192	.3531	.2258	.1368	.0788	.0431	.0226	.0113	.0053	.0024	.0010	23
3	.1104	.2898	.4806	.5228	.3743	.2528	.1617	.0980	.0565	.0310	.0161	.0080	.0037	22
4	.0508	.1625	.3146	.4771	.5262	.3896	.2729	.1810	.1140	.0681	.0386	.0208	.0105	21
5	.0226	.0864	.1929	.3286	.4736	.5297	.4013	.2882	.1966	.1271	.0779	.0453	.0248	20
6	.0098	.0438	.1115	.2126	.3369	.4702	.5330	.4105	.3007	.2090	.1378	.0863	.0508	19
7	.0041	.0212	.0610	.1297	.2257	.3418	.4669	.5361	.4184	.3107	.2191	.1468	.0927	18
8	.0017	.0098	.0317	.0748	.1427	.2346	.3446	.4635	.5395	.4251	.3189	.2276	.1535	17
9	.0007	.0043	.0156	.0408	.0853	.1520	.2405	.3458	.4603	.5429	.4309	.3261	.2340	16
10	.0003	.0018	.0072	.0211	.0482	.0930	.1586	.2441	.3459	.4570	.5465	.4364	.3317	15
11	.0001	.0007	.0031	.0103	.0257	.0537	.0986	.1627	.2460	.3450	.4532	.5505	.4410	14
12		.0003	.0012	.0047	.0129	.0292	.0577	.1022	.1652	.2465	.3429	.4493	.5544	13
13		.0001	.0004	.0020	.0061	.0149	.0317	.0603	.1045	.1660	.2452	.3400	.4453	12
14			.0001	.0008	.0027	.0071	.0163	.0333	.0619	.1050	.1650	.2428	.3362	11
15				.0003	.0011	.0031	.0078	.0171	.0342	.0620	.1039	.1627	.2390	10
16				.0001	.0004	.0012	.0034	.0081	.0175	.0340	.0608	.1016	.1588	9
17					.0001	.0004	.0013	.0035	.0082	.0172	.0328	.0586	.0978	8
18						.0001	.0004	.0013	.0035	.0079	.0161	.0309	.0552	7
19							.0001	.0004	.0013	.0033	.0071	.0147	.0282	6
20								.0001	.0004	.0012	.0027	.0062	.0128	5
21									.0001	.0004	.0009	.0022	.0050	4
22										.0001	.0002	.0006	.0016	3
23												.0001	.0004	2
24													.0001	1
25														0
	25	24	23	22	21	20	19	18	17	16	15	14	13	p \ r

n=26, m=15

r\p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	
0	.6429	.4077	.2548	.1568	.0949	.0564	.0329	.0188	.0105	.0057	.0031	.0016	.0008	.0004	15
1	.3572	.7134	.5488	.4044	.2873	.1975	.1317	.0852	.0535	.0326	.0193	.0110	.0061	.0032	14
2	.1220	.2866	.4512	.5956	.5117	.3950	.2943	.2119	.1476	.0994	.0647	.0406	.0246	.0143	13
3	.0396	.1220	.2346	.3614	.4883	.5964	.4865	.3836	.2922	.2151	.1528	.1047	.0691	.0438	12
4	.0122	.0469	.1078	.1923	.2938	.4036	.5135	.5663	.4658	.3707	.2851	.2116	.1513	.1040	11
5	.0035	.0164	.0443	.0908	.1565	.2389	.3333	.4338	.5342	.5418	4468	.3563	.2743	.2034	10
6	.0010	.0053	.0164	.0383	.0741	.1256	.1926	.2730	.3631	.4582	.6126	.5203	.4281	.3401	9
7	.0002	.0015	.0055	.0144	.0312	.0586	.0988	.1529	.2204	.2997	.3874	.4797	.5914	.5000	8
8	.0001	.0004	.0016	.0048	.0116	.02ɑ2	.0448	.0756	.1185	.1743	.2425	.3216	.4087	.5000	7
9		.0001	.0004	.0014	.0038	.0087	.0177	.0327	.0558	.0890	.1338	.1909	.2602	.3401	6
10			.0001	.0004	.0011	.0027	.0060	.0122	.0227	.0393	.0639	.0986	.1447	.2034	5
11				.0001	.0003	.0007	.0017	.0038	.0078	.0146	.0258	.0431	.0685	.1040	4
12					.0001	.0002	.0004	.0010	.0022	.0044	.0085	.0154	.0266	.0438	3
13							.0001	.0002	.0005	.0010	.0021	.0042	.0080	.0143	2
14									.0001	.0002	.0004	.0008	.0017	.0032	1
15												.0001	.0002	.0004	0
	26	25	24	23	22	21	20	19	18	17	16	15	14	13	p\r

n=26, m=20

r\p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	
0	.5745	.3247	.1804	.0984	.0526	.0276	.0141	.0071	.0034	.0016	.0008	.0003	.0001	.0001	20
1	.4255	.6753	.4264	.2814	.1779	.1083	.0635	.0360	.0197	.0104	.0053	.0026	.0012	.0006	19
2	.1758	.3867	.5737	.4885	.3521	.2424	.1599	.1012	.0616	.0360	.0202	.0109	.0056	.0028	18
3	.0703	.1997	.3563	.5115	.5351	.4075	.2967	.2069	.1383	.0886	.0544	.0320	.0180	.0097	17
4	.0272	.0954	.2010	.3297	.4649	.5737	.4539	.3441	.2500	.1741	.1160	.0740	.0451	.0262	16
5	.0101	.0426	.1044	.1945	.3055	.4263	.5461	.4947	.3867	.2901	.2085	.1434	.0943	.0591	15
6	.0036	.0179	.0503	.1058	.1846	.2826	.3924	.5053	.5317	.4260	.3278	.2417	.1705	.1148	14
7	.0012	0071	.0226	.0532	.1029	.1728	.2607	.3614	.4682	.5664	.4630	.3638	.2741	.1974	13
8	.0004	.0026	.0095	.0248	.0530	.0975	.1599	.2393	.3323	.4336	.5993	.4984	.3987	.3058	12
9	.0001	.0009	.0037	.0107	.0252	.0508	.0905	.1462	.2183	.3044	.4007	.5016	.5329	.4330	11
10		.0003	.0013	.0043	.0111	.0243	.0470	.0822	.1321	.1975	.2773	.3687	.4671	.5670	10
11		.0001	.0005	.0016	.0045	.0107	.0224	.0423	.0733	.1176	.1768	.2506	.3372	.4330	9
12			.0001	.0005	.0016	.0043	.0097	.0198	.0370	.0639	.1030	.1561	.2240	.3058	8
13				.0002	.0005	.0015	.0038	.0084	.0168	.0313	.0543	.0882	.1354	.1974	7
14					.0002	.0005	.0013	.0031	.0068	.0137	.0255	.0446	.0735	.1148	6
15						.0001	.0004	.0010	.0024	.0052	.0105	.0198	.0352	.0591	5
16							.0001	.0003	.0007	.0017	.0037	.0076	.0145	.0262	4
17								.0001	.0002	.0005	.0011	.0024	.0049	.0097	3
18										.0001	.0002	.0006	.0013	.0028	2
19												.0001	.0002	.0006	1
20														.0001	0
	26	25	24	23	22	21	20	19	18	17	16	15	14	13	p\r

n=26, m=22

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	
0	.5510	.2985	.1588	.0828	.0423	.0212	.0103	.0049	.0023	.0010	.0005	.0002	.0001		22
1	.4490	.7015	.3865	.2448	.1482	.0862	.0483	.0261	.0136	.0068	.0033	.0015	.0007	.0003	21
2	.1964	.4221	.6135	.4381	.3033	.1999	.1259	.0760	.0440	.0244	.0130	.0066	.0032	.0015	20
3	.0836	.2308	.4009	.5619	.4756	.3478	.2424	.1613	.1026	.0625	.0364	.0202	.0107	.0054	19
4	.0345	.1174	.2398	.3821	.5245	.5059	.3843	.2787	.1930	.1278	.0808	.0487	.0280	.0153	18
5	.0138	.0562	.1330	.2398	.3648	.4941	.5321	.4157	.3105	.2218	.1513	.0984	.0610	.0359	17
6	.0053	.0254	.0690	.1398	.2354	.3482	.4679	.5559	.4437	.3393	.2481	.1733	.1153	.0730	16
7	.0020	.0019	.0336	.0761	.1415	.2285	.3320	.4442	.5780	.4695	.3657	.2726	.1940	.1314	15
8	.0007	.0044	.0154	.0387	.0793	.1398	.2199	.3160	.4220	.5305	.4937	.3906	.2957	.2135	14
9	.0002	.0017	.0066	.0185	.0415	.0797	.1358	.2100	.2999	.4008	.5062	.5171	.4143	.3176	13
10	.0001	.0006	.0027	.0082	.0202	.0423	.0780	.1300	.1990	.2837	.3801	.4829	.5399	.4373	12
11		.0002	.0010	.0034	.0092	.0209	.0417	.0748	.1229	.1872	.2670	.3596	.4601	.5627	11
12		.0001	.0004	.0013	.0039	.0095	.0206	.0398	.0703	.1146	.1745	.2499	.3388	.4373	10
13			.0001	.0005	.0015	.0040	.0094	.0195	.0370	.0647	.1054	.1610	.2321	.3176	9
14				.0002	.0005	.0015	.0039	.0087	.0178	.0335	.0583	.0953	.1466	.2135	8
15					.0002	.0005	.0015	.0035	.0078	.0157	.0293	.0513	.0845	.1314	7
16					.0001	.0002	.0005	.0013	.0030	.0066	.0132	.0248	.0438	.0730	6
17							.0002	.0004	.0010	.0024	.0052	.0106	.0201	.0359	5
18								.0001	.0003	.0008	.0018	.0039	.0079	.0153	4
19									.0001	.0002	.0005	.0012	.0026	.0054	3
20											.0001	.0003	.0007	.0015	2
21													.0001	.0003	1
22															0
	26	25	24	23	22	21	20	19	18	17	16	15	14	13	p \ r

n=26, m=24

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	
0	.5294	.2753	.1405	.0702	.0344	.0164	.0077	.0035	.0015	.0007	.0003	.0001			24
1	.4706	.7247	.3511	.2137	.1240	.0690	.0370	.0191	.0095	.0045	.0021	.0009	.0004	.0002	23
2	.2165	.4550	.6489	.3930	.2615	.1653	.0996	.0574	.0317	.0167	.0085	.0041	.0019	.0008	22
3	.0972	.2612	.4427	.6070	.4219	.2966	.1981	.1260	.0765	.0443	.0245	.0129	.0065	.0031	21
4	.0425	.1402	.2783	.4317	.5781	.4443	.3242	.2251	.1489	.0939	.0564	.0322	.0175	.0090	20
5	.0181	.0712	.1633	.2853	.4215	.5558	.4629	.3470	.2480	.1688	.1095	.0676	.0396	.0220	19
6	.0075	.0344	.0900	.1763	.2872	.4117	.5372	.4791	.3667	.2677	.1863	.1235	.0777	.0464	18
7	.0030	.0158	.0469	.1023	.1835	.2862	.4020	.5209	.4939	.3840	.2852	.2019	.1359	.0868	17
8	.0012	.0069	.0231	.0560	.1102	.1869	.2831	.3924	.5062	.5076	.3997	.3008	.2157	.1470	16
9	.0004	.0029	.0108	.0289	.0622	.1147	.1875	.2786	.3826	.4924	.5207	.4143	.3150	.2281	15
10	.0002	.0012	.0048	.0140	.0331	.0662	.1167	.1861	.2728	.3726	.4793	.5293	.4280	.3280	14
11	.0001	.0004	.0020	.0064	.0165	.0358	.0682	.1167	.1829	.2659	.3623	.6485	.5461	.4411	13
12		.0002	.0008	.0028	.0077	.0182	.0373	.0686	.1150	.1783	.2581	.3515	.4539	.5589	12
13		.0001	.0003	.0011	.0034	.0086	.0190	.0376	.0676	.1119	.1724	.2491	.3402	.4411	11
14			.0001	.0004	.0014	.0038	.0090	.0192	.0369	.0654	.1074	.1651	.2392	.3280	10
15				.0001	.0005	.0015	.0040	.0090	.0186	.0353	.0620	.1017	.1567	.2281	9
16					.0002	.0006	.0016	.0039	.0086	.0175	.0329	.0577	.0948	.1470	8
17					.0001	.0002	.0006	.0015	.0036	.0079	.0159	.0298	.0524	.0868	7
18						.0001	.0002	.0005	.0014	.0032	.0069	.0139	.0262	.0464	6
19							.0001	.0002	.0005	.0011	.0027	.0057	.0116	.0220	5
20									.0001	.0004	.0009	.0020	.0044	.0090	4
21										.0001	.0002	.0006	.0014	.0031	3
22											.0001	.0001	.0004	.0008	2
23													.0001	.0002	1
24															0
	26	25	24	23	22	21	20	19	18	17	16	15	14	13	p \ r

n=26, m=25

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	
0	.5192	.2647	.1324	.0648	.0311	.0145	.0066	.0030	.0013	.0005	.0002	.0001			25
1	.4808	.7353	.3349	.1999	.1137	.0620	.0325	.0164	.0079	.0037	.0017	.0007	.0003	.0001	24
2	.2263	.4706	.6650	.3723	.2430	.1505	.0888	.0500	.0270	.0139	.0069	.0032	.0015	.0006	23
3	.1041	.2761	.4625	.6277	.3972	.2738	.1792	.1115	.0662	.0374	.0202	.0104	.0051	.0024	22
4	.0467	.1519	.2972	.4553	.6028	.4158	.2975	.2022	.1308	.0805	.0472	.0263	.0139	.0070	21
5	.0205	.0792	.1787	.3078	.4486	.5842	.4309	.3165	.2213	.1472	.0931	.0560	.0320	.0173	20
6	.0087	.0393	.1013	.1952	.3130	.4422	.5692	.4436	.3324	.2373	.1612	.1041	.0638	.0370	19
7	.0036	.0187	.0543	.1166	.2054	.3152	.4358	.5565	.4547	.3460	.2510	.1732	.1135	.0705	18
8	.0014	.0085	.0277	.0658	.1271	.2117	.3151	.4294	.5453	.4648	.3579	.2628	.1835	.1215	17
9	.0006	.0037	.0134	.0351	.0742	.1342	.2151	.3136	.4230	.5352	.4742	.3685	.2730	.1922	16
10	.0002	.0015	.0062	.0178	.0409	.0802	.1385	.2163	.3108	.4164	.5258	.4830	.3780	.2819	15
11	.0001	.0006	.0027	.0085	.0213	.0452	.0841	.1408	.2158	.3070	.4095	.5170	.4916	.3867	14
12		.0002	.0011	.0038	.0104	.0240	.0480	.0862	.1412	.2137	.3021	.4024	.5084	.5000	13
13		.0001	.0004	.0016	.0048	.0119	.0257	.0495	.0868	.1400	.2102	.2964	.3948	.5000	12
14			.0002	.0007	.0021	.0056	.0129	.0266	.0499	.0860	.1374	.2055	.2897	.3867	11
15			.0001	.0003	.0008	.0024	.0060	.0133	.0267	.0492	.0838	.1334	.1995	.2819	10
16				.0001	.0003	.0010	.0026	.0062	.0133	.0261	.0475	.0805	.1281	.1922	9
17					.0001	.0004	.0010	.0026	.0061	.0127	.0247	.0448	.0761	.1215	8
18						.0001	.0004	.0010	.0025	.0057	.0118	.0228	.0413	.0705	7
19							.0001	.0004	.0009	.0023	.0050	.0104	.0203	.0370	6
20								.0001	.0003	.0008	.0019	.0042	.0088	.0173	5
21									.0001	.0002	.0006	.0015	.0033	.0070	4
22										.0001	.0002	.0004	.0010	.0024	3
23												.0001	.0003	.0006	2
24														.0001	1
25															0
	26	25	24	23	22	21	20	19	18	17	16	15	14	13	p \ r

n=26, m=26

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	
0	.5094	.2547	.1249	.0599	.0281	.0129	.0058	.0025	.0011	.0004	.0002	.0001			26
1	.4906	.5144	.3196	.1871	.1043	.0557	.0286	.0141	.0067	.0031	.0013	.0006	.0002	.0001	25
2	.2358	.4856	.5184	.3528	.2259	.1371	.0792	.0437	.0230	.0116	.0056	.0026	.0011	.0005	24
3	.1110	.2908	.4816	.5219	.3739	.2529	.1621	.0988	.0573	.0317	.0167	.0084	.0040	.0018	23
4	.0511	.1636	.3160	.4781	.5252	.3891	.2729	.1817	.1149	.0691	.0395	.0215	.0111	.0054	22
5	.0229	.0874	.1944	.3301	.4748	.5284	.4007	.2885	.1974	.1283	.0793	.0465	.0258	.0136	21
6	.0100	.0446	.1130	.2143	.3387	.4716	.5315	.4100	.3010	.2101	.1394	.0878	.0534	.0296	20
7	.0043	.0219	.0623	.1314	.2278	.3439	.4685	.5346	.4178	.3111	.2205	.1484	.0948	.0572	19
8	.0018	.0103	.0327	.0763	.1449	.2371	.3470	.4654	.5378	.4244	.3196	.2290	.1558	.1003	18
9	.0007	.0047	.0164	.0421	.0872	.1546	.2434	.3485	.4622	.5410	.4303	.3266	.2358	.1615	17
10	.0003	.0020	.0078	.0220	.0498	.0955	.1617	.2475	.3489	.4590	.5444	.4355	.3324	.2413	16
11	.0001	.0009	.0035	.0109	.0269	.0557	.1015	.1664	.2499	.3483	.4556	.5479	.4402	.3373	15
12		.0004	.0015	.0051	.0138	.0308	.0603	.1057	.1693	.2507	.3467	.4522	.5516	.4445	14
13		.0002	.0006	.0023	.0067	.0160	.0337	.0634	.1083	.1706	.2501	.3444	.4484	.5556	13
14		.0001	.0002	.0010	.0030	.0078	.0177	.0357	.0652	.1094	.1704	.2484	.3413	.4445	12
15		.0001	.0001	.0004	.0013	.0036	.0087	.0188	.0368	.0658	.1091	.1688	.2454	.3373	11
16		.0001		.0001	.0006	.0015	.0040	.0093	.0194	.0370	.0653	.1075	.1658	.2413	10
17						.0006	.0017	.0042	.0095	.0193	.0363	.0637	.1046	.1615	9
18						.0002	.0007	.0018	.0042	.0093	.0186	.0349	.0610	.1003	8
19						.0001	.0002	.0007	.0017	.0041	.0087	.0174	.0326	.0572	7
20							.0001	.0002	.0006	.0016	.0037	.0079	.0157	.0296	6
21								.0001	.0002	.0006	.0014	.0031	.0067	.0136	5
22									.0001	.0002	.0004	.0011	.0025	.0054	4
23											.0001	.0003	.0008	.0018	3
24												.0001	.0002	.0005	2
25														.0001	1
26															0
	26	25	24	23	22	21	20	19	18	17	16	15	14	13	p \ r

n=27, m=15

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	
0	.6512	.4186	.2655	.1659	.1021	.0618	.0367	.0214	.0123	.0068	.0037	.0020	.0010	.0005	15
1	.3489	.5814	.5641	.4211	.3036	.2121	.1439	.0949	.0609	.0380	.0230	.0135	.0077	.0042	14
2	.1163	.2751	.4360	.5788	.5324	.4167	.3154	.2311	.1640	.1128	.0751	.0484	.0302	.0181	13
3	.0369	.1143	.2216	.3437	.4677	.5833	.5121	.4099	.3177	.2384	.1731	.1215	.0824	.0538	12
4	.0111	.0428	.0993	.1985	.2749	.3806	.4879	.5943	.4961	.4016	.3149	.2390	.1752	.1238	11
5	.0031	.0146	.0398	.0822	.1428	.2197	.3091	.4057	.5039	.5750	.4821	.3921	.3086	.2347	10
6	.0008	.0045	.0144	.0337	.0658	.1124	.1739	.2487	.3337	.4250	.5179	.5589	.4688	.3810	9
7	.0002	.0013	.0047	.0123	.0269	.0510	.0867	.1353	.1969	.2702	.3527	.4411	.6319	.5445	8
8	.0001	.0003	.0014	.0040	.0097	.0204	.0381	.0649	.1026	.1522	.2139	.2866	.3681	.4554	7
9		.0001	.0004	.0011	.0031	.0071	.0146	.0272	.0467	.0751	.1140	.1643	.2264	.2992	6
10			.0001	.0003	.0008	.0021	.0048	.0098	.0183	.0319	.0524	.0816	.1211	.1720	5
11			.0001	.0001	.0002	.0005	.0013	.0030	.0060	.0114	.0203	.0343	.0549	.0842	4
12						.0001	.0003	.0007	.0016	.0033	.0064	.0117	.0204	.0338	3
13							.0001	.0001	.0003	.0007	.0015	.0031	.0058	.0105	2
14										.0001	.0003	.0006	.0011	.0022	1
15												.0001	.0001	.0003	0
	27	26	25	24	23	22	21	20	19	18	17	16	15	14	p \ r

n=27, m=20

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	
0	.5833	.3351	.1894	.1052	.0574	.0307	.0161	.0082	.0041	.0020	.0010	.0004	.0002	.0001	20
1	.4167	.6649	.4419	.2966	.1909	.1184	.0710	.0412	.0231	.0126	.0066	.0034	.0016	.0008	19
2	.1685	.3735	.5581	.5079	.3720	.2607	.1753	.1134	.0707	.0425	.0245	.0136	.0073	.0037	18
3	.0659	.1889	.3400	.4921	.5576	.4314	.3198	.2275	.1554	.1021	.0644	.0390	.0227	.0126	17
4	.0249	.0883	.1878	.3110	.4424	.5686	.4814	.3716	.2755	.1963	.1342	.0880	.0553	.0333	16
5	.0091	.0385	.0954	.1795	.2847	.4011	.5187	.5253	.4182	.3203	.2357	.1665	.1127	.0730	15
6	.0032	.0158	.0449	.0954	.1682	.2601	.3650	.4748	.5651	.4613	.3626	.2740	.1987	.1380	14
7	.0011	.0061	.0197	.0469	.0916	.1553	.2369	.3320	.4349	.5388	.5017	.4031	.3114	.2309	13
8	.0003	.0022	.0080	.0213	.0460	.0855	.1417	.2145	.3013	.3978	.4982	.5404	.4423	.3484	12
9	.0001	.0007	.0030	.0090	.0213	.0433	.0780	.1277	.1928	.2721	.3626	.4596	.5780	.4808	11
10		.0002	.0011	.0035	.0091	.0202	.0395	.0698	.1134	.1716	.2440	.3287	.4220	.6149	10
11		.0001	.0004	.0013	.0036	.0086	.0182	.0349	.0610	.0992	.1509	.2168	.2957	.3851	9
12			.0001	.0004	.0013	.0033	.0077	.0158	.0299	.0521	.0850	.1307	.1900	.2632	8
13				.0001	.0004	.0012	.0029	.0065	.0131	.0247	.0433	.0712	.1108	.1638	7
14					.0001	.0004	.0010	.0024	.0051	.0104	.0196	.0347	.0578	.0916	6
15						.0001	.0003	.0008	.0018	.0038	.0078	.0148	.0265	.0451	5
16							.0001	.0002	.0005	.0012	.0026	.0054	.0104	.0191	4
17								.0001	.0001	.0003	.0007	.0016	.0034	.0067	3
18										.0001	.0002	.0004	.0008	.0018	2
19												.0001	.0001	.0003	1
20															0
	27	26	25	24	23	22	21	20	19	18	17	16	15	14	p \ r

n=27, m=22

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	
0	.5600	.3086	.1671	.0889	.0464	.0237	.0119	.0058	.0028	.0013	.0006	.0003	.0001		22
1	.4400	.6914	.4019	.2590	.1598	.0948	.0543	.0301	.0161	.0083	.0041	.0020	.0009	.0004	21
2	.1886	.4086	.5982	.4574	.3221	.2164	.1392	.0860	.0510	.0291	.0160	.0084	.0043	.0021	20
3	.0786	.2190	.3839	.5426	.4983	.3708	.2635	.1792	.1167	.0729	.0437	.0251	.0138	.0072	19
4	.0318	.1091	.2251	.3622	.5017	.5318	.4110	.3040	.2153	.1460	.0949	.0590	.0351	.0199	18
5	.0124	.0511	.1223	.2227	.3423	.4683	.5608	.4460	.3400	.2484	.1738	.1164	.0745	.0455	17
6	.0047	.0226	.0620	.1271	.2163	.3234	.4391	.5541	.4774	.3727	.2791	.2002	.1374	.0899	16
7	.0017	.0095	.0295	.0676	.1271	.2076	.3051	.4128	.5227	.5064	.4031	.3080	.2254	.1577	15
8	.0006	.0038	.0132	.0336	.0695	.1240	.1974	.2872	.3881	.4936	.5338	.4318	.3355	.2497	14
9	.0002	.0014	.0056	.0156	.0355	.0690	.1189	.1862	.2694	.3645	.4662	.5603	.4595	.3621	13
10	.0001	.0005	.0022	.0068	.0169	.0357	.0666	.1124	.1742	.2515	.3415	.4397	.5862	.4866	12
11		.0002	.0008	.0027	.0075	.0171	.0346	.0629	.1046	.1615	.2335	.3188	.4139	.6119	11
12		.0001	.0003	.0010	.0031	.0076	.0166	.0325	.0581	.0960	.1482	.2152	.2962	.3881	10
13			.0001	.0004	.0012	.0031	.0073	.0155	.0297	.0525	.0867	.1343	.1966	.2732	9
14				.0001	.0004	.0012	.0029	.0067	.0138	.0263	.0464	.0768	.1199	.1774	8
15					.0001	.0004	.0011	.0026	.0058	.0119	.0225	.0399	.0666	.1051	7
16						.0001	.0003	.0009	.0022	.0048	.0098	.0185	.0332	.0561	6
17							.0001	.0003	.0007	.0017	.0037	.0076	.0146	.0264	5
18								.0001	.0002	.0005	.0012	.0027	.0055	.0107	4
19									.0001	.0001	.0003	.0008	.0017	.0036	3
20											.0001	.0002	.0004	.0010	2
21													.0001	.0002	1
22															0
	27	26	25	24	23	22	21	20	19	18	17	16	15	14	p \ r

n=27, m=24

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	
0	.5385	.2851	.1482	.0756	.0378	.0185	.0089	.0041	.0019	.0008	.0004	.0002	.0001		24
1	.4615	.7150	.3660	.2269	.1344	.0764	.0419	.0222	.0113	.0056	.0027	.0012	.0005	.0002	23
2	.2081	.4413	.6339	.4119	.2792	.1801	.1110	.0655	.0371	.0202	.0106	.0053	.0025	.0012	22
3	.0916	.2486	.4252	.5881	.4444	.3182	.2170	.1413	.0879	.0524	.0299	.0163	.0085	.0042	21
4	.0392	.1309	.2624	.4110	.5556	.4701	.3496	.2480	.1680	.1087	.0672	.0397	.0223	.0120	20
5	.0163	.0651	.1509	.2665	.3979	.5299	.4918	.3760	.2746	.1917	.1278	.0813	.0493	.0284	19
6	.0066	.0308	.0815	.1214	.2659	.3853	.5082	.5111	.3991	.2982	.2130	.1452	.0944	.0584	18
7	.0026	.0139	.0415	.0917	.1663	.2625	.3731	.4889	.5289	.4199	.3194	.2323	.1613	.1066	17
8	.0010	.0060	.0200	.0490	.0977	.1677	.2572	.3608	.4711	.5456	.4392	.3389	.2501	.1760	16
9	.0004	.0025	.0091	.0247	.0539	.1006	.1665	.2506	.3486	.4544	.5617	.4573	.3570	.2665	15
10	.0001	.0010	.0039	.0117	.0279	.0566	.1012	.1634	.2428	.3362	.4383	.5776	.4746	.3741	14
11		.0004	.0016	.0052	.0136	.0299	.0576	.0999	.1588	.2340	.3234	.4225	.5934	.4915	13
12		.0001	.0006	.0022	.0062	.0148	.0307	.0571	.0972	.1528	.2243	.3102	.4067	.6093	12
13			.0002	.0009	.0026	.0068	.0152	.0305	.0555	.0931	.1456	.2137	.2964	.3906	11
14			.0001	.0003	.0010	.0029	.0070	.0151	.0294	.0528	.0880	.1374	.2022	.2819	10
15				.0001	.0004	.0012	.0030	.0069	.0144	.0276	.0492	.0819	.1281	.1896	9
16					.0001	.0004	.0012	.0029	.0065	.0133	.0252	.0448	.0748	.1179	8
17						.0001	.0004	.0011	.0026	.0058	.0118	.0223	.0398	.0670	7
18							.0001	.0004	.0010	.0023	.0049	.0100	.0191	.0343	6
19								.0001	.0003	.0008	.0018	.0039	.0081	.0156	5
20									.0001	.0002	.0006	.0013	.0029	.0061	4
21										.0001	.0002	.0004	.0009	.0020	3
22												.0001	.0002	.0005	2
23														.0001	1
24															0
	27	26	25	24	23	22	21	20	19	18	17	16	15	14	p \ r

n=27, m=25

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	
0	.5283	.2743	.1398	.0699	.0343	.0164	.0077	.0035	.0016	.0007	.0003	.0001			25
1	.4717	.7257	.3496	.2126	.1234	.0688	.0369	.0191	.0095	.0046	.0021	.0009	.0004	.0002	24
2	.2177	.4567	.6504	.3910	.2601	.1644	.0992	.0574	.0318	.0169	.0086	.0042	.0020	.0009	23
3	.0982	.2631	.4449	.6090	.4195	.2948	.1970	.1256	.0764	.0445	.0247	.0132	.0067	.0032	22
4	.0432	.1419	.2808	.4344	.5805	.4414	.3221	.2238	.1483	.0938	.0566	.0326	.0179	.0093	21
5	.0185	.0725	.1656	.2883	.4247	.5586	.4596	.3446	.2465	.1682	.1095	.0679	.0401	.0225	20
6	.0077	.0353	.0920	.1792	.2908	.4154	.5404	.4754	.3639	.2660	.1856	.1235	.0782	.0471	19
7	.0031	.0164	.0483	.1048	.1870	.2903	.4062	.5246	.4897	.3809	.2833	.2011	.1360	.0875	18
8	.0012	.0073	.0241	.0579	.1132	.1910	.2878	.3971	.5103	.5029	.3962	.2987	.2149	.1472	17
9	.0005	.0031	.0114	.0302	.0646	.1183	.1922	.2839	.3879	.4971	.5155	.4103	.3126	.2273	16
10	.0002	.0013	.0051	.0149	.0348	.0691	.1209	.1914	.2787	.3786	.4845	.5276	.4236	.3254	15
11	.0001	.0005	.0022	.0069	.0177	.0380	.0716	.1215	.1889	.2726	.3689	.4724	.5396	.4362	14
12		.0002	.0009	.0031	.0084	.0196	.0398	.0725	.1204	.1850	.2654	.3589	.4604	.5516	13
13		.0001	.0003	.0013	.0038	.0095	.0208	.0405	.0720	.1179	.1798	.2574	.3484	.4484	12
14			.0001	.0005	.0016	.0043	.0101	.0212	.0402	.0703	.1141	.1734	.2484	.3373	11
15				.0002	.0006	.0018	.0046	.0103	.0209	.0390	.0675	.1091	.1658	.2384	10
16				.0001	.0002	.0007	.0019	.0046	.0101	.0200	.0370	.0637	.1030	.1571	9
17					.0001	.0003	.0007	.0019	.0044	.0095	.0186	.0342	.0590	.0958	9
18						.0001	.0003	.0007	.0018	.0041	.0085	.0168	.0308	.0534	7
19							.0001	.0002	.0006	.0016	.0035	.0074	.0145	.0269	6
20								.0001	.0002	.0005	.0013	.0029	.0060	.0120	5
21									.0001	0002	.0004	.0010	.0022	.0046	4
22											.0001	.0003	.0007	.0015	3
23												.0001	.0002	.0004	2
24														.0001	1
25															0
	27	26	25	24	23	22	21	20	19	18	17	16	15	14	p \ r

n=27, m=26

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	
0	.5185	.2642	.1321	.0647	.0311	.0146	.0067	.0030	.0013	.0006	.0002	.0001			26
1	.4815	.7358	.3341	.1994	.1135	.0620	.0326	.0165	.0080	.0038	.0017	.0008	.0003	.0001	25
2	.2271	.4717	.6659	.3712	.2424	.1503	.0889	.0503	.0272	.0142	.0070	.0034	.0015	.0007	24
3	.1048	.2774	.4639	.6288	.3958	.2731	.1789	.1117	.0665	.0378	.0206	.0107	.0053	.0025	23
4	.0473	.1531	.2990	.4570	.6041	.4143	.2966	.2020	.1310	.0810	.0478	.0268	.0144	.0073	22
5	.0208	.0802	.1805	.3099	.4506	.5857	.4290	.3155	.2210	.1475	.0938	.0568	.0327	.0179	21
6	.0089	.0401	.1028	.1974	.3156	.4445	.5710	.4416	.3313	.2370	.1616	.1050	.0648	.0380	20
7	.0037	.0192	.0555	.1186	.2081	.3181	.4385	.5585	.4525	.3447	.2507	.1738	.1146	.0718	19
8	.0015	.0088	.0285	.0674	.1296	.2149	.3185	.4325	.5476	.4622	.3564	.2625	.1842	.1229	18
9	.0006	.0038	.0140	.0363	.0763	.1371	.2188	.3174	.4265	.5378	.4713	.3669	.2728	.1932	17
10	.0002	.0016	.0065	.0186	.0425	.0827	.1420	.2205	.3151	.4203	.5287	.4798	.3763	.2818	16
11	.0001	.0006	.0029	.0090	.0224	.0472	.0871	.1447	.2205	.3118	.4139	.5201	.4880	.3849	15
12		.0002	.0012	.0041	.0112	.0254	.0504	.0897	.1458	.2190	.3076	.4072	.5120	.4960	14
13		.0001	.0005	.0018	.0053	.0129	.0275	.0523	.0908	.1452	.2163	.3025	.4003	.5040	13
14			.0002	.0007	.0023	.0061	.0141	.0287	.0531	.0906	.1433	.2123	.2966	.3929	12
15			.0001	.0003	.0010	.0027	.0067	.0147	.0291	.0529	.0891	.1400	.2071	.2897	11
16				.0001	.0004	.0011	.0030	.0070	.0148	.0288	.0517	.0864	.1356	.2008	10
17					.0001	.0004	.0012	.0031	.0070	.0146	.0278	.0495	.0826	.1299	9
18						.0002	.0005	.0012	.0030	.0068	.0138	.0261	.0465	.0778	8
19						.0001	.0002	.0004	.0012	.0029	.0062	.0126	.0239	.0426	7
20								.0001	.0004	.0011	.0025	.0055	.0111	.0211	6
21										.0004	.0009	.0021	.0045	.0093	5
22										.0001	.0003	.0007	.0016	.0035	4
23											.0001	.0002	.0005	.0011	3
24													.0001	.0003	2
25															1
26															0
	27	26	25	24	23	22	21	20	19	18	17	16	15	14	p \ r

n=27, m=27

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	
0	.5091	.2545	.1249	.0600	.0283	.0130	.0058	.0026	.0011	.0005	.0002	.0001			27
1	.4909	.5139	.3194	.1872	.1045	.0560	.0288	.0143	.0068	.0031	.0014	.0006	.0003	.0001	26
2	2364	.4861	.5177	.3524	.2260	.1374	.0796	.0441	.0234	.0119	.0058	.0027	.0012	.0005	25
3	.1115	.2916	.4823	.5211	.3735	.2530	.1625	.0994	.0579	.0322	.0171	.0087	.0042	.0019	24
4	0515	.1644	.3170	.4789	.5242	.3886	.2730	.1823	.1158	.0700	.0404	.0221	.0116	.0057	23
5	.0232	.0882	.1956	.3314	.4758	.5273	.4001	.2887	.1981	.1294	.0804	.0475	.0267	.0142	22
6	0102	.0452	.1142	.2158	.3402	.4728	.5302	.4094	.3012	.2110	.1407	.0892	.0537	.0307	21
7	.0044	.0222	.0633	.1329	.2296	.3457	.4698	.5331	.4172	.3114	.2216	.1500	.0965	.0589	20
8	.0018	.0105	.0335	.0777	.1468	.2393	.3491	.4669	.5361	.4238	.3199	.2303	.1577	.1025	19
9	.0007	.0047	.0169	.0431	.0889	.1569	.2460	.3509	.4639	.5391	.4295	.3271	.2374	.1638	18
10	0003	.0021	.0081	.0228	.0511	.0976	.1644	.2505	.3516	.4608	.5423	.4347	.3330	.2431	17
11	0001	.0008	.0037	.0115	.0279	.0575	.1041	.1696	.2532	.3512	.4577	.5455	.4393	.3381	16
12		0003	.0016	.0055	.0144	.0321	.0624	.1088	.1730	.2544	.3501	.4545	.5490	.4435	15
13		.0001	.0007	.0025	.0071	.0170	.0354	.0660	.1118	.1747	.2545	.3482	.4510	.5526	14
14			.0003	.0011	.0033	.0085	.0189	.0378	.0683	.1134	.1751	.2533	.3456	.4474	13
15			.0001	.0004	.0014	.0040	.0095	.0203	.0392	.0693	.1137	.1742	.2510	.3422	12
16				.0002	.0006	.0018	.0045	.0103	.0211	.0398	.0693	.1127	.1720	.2477	11
17				.0001	.0002	.0007	.0020	.0048	.0106	.0213	.0395	.0683	.1105	.1686	10
18					.0001	.0003	.0008	.0021	.0050	.0106	.0209	.0385	.0662	.1071	9
19						.0001	.0003	.0008	.0021	.0048	.0102	.0200	.0366	.0631	8
20							.0001	.0003	.0008	.0020	.0045	.0095	.0185	.0340	7
21								.0001	.0003	.0007	.0018	.0040	.0085	.0166	6
22									.0001	.0002	.0006	.0015	.0034	.0072	5
23										.0001	.0002	.0005	.0012	.0027	4
24												.0001	.0004	.0008	3
25													.0001	.0002	2
26															1
27															0
	27	26	25	24	23	22	21	20	19	18	17	16	15	14	p \ r

n=28, m=15

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
0	.6590	.4292	.2759	.1749	.1093	.0673	.0407	.0242	.0141	.0081	.0045	.0025	.0013	.0007	.0003	15
1	.3409	.5708	.5787	.4374	.3196	.2267	.1563	.1049	.0686	.0437	.0271	.0163	.0095	.0054	.0030	14
2	.1110	.2643	.4213	.5626	.5520	.4377	.3361	.2502	.1808	.1268	.0863	.0569	.0364	.0225	.0134	13
3	.0344	.1073	.2093	.3271	.4479	.5622	.5364	.4354	.3428	.2618	.1938	.1391	.0966	.0648	.0420	12
4	.0101	.0392	.0916	.1659	.2574	.3590	.4635	.5645	.5251	.4317	.3445	.2666	.1998	.1448	.1013	11
5	.0028	.0131	.0358	.0745	.1304	.2022	.2867	.3793	.4748	.6061	.5159	.4268	.3427	.2666	.2005	10
6	.0007	.0040	.0126	.0298	.0585	.1008	.1571	.2266	.3066	.3939	.4841	.5950	.5077	.4209	.3383	9
7	.0002	.0011	.0040	.0106	.0233	.0444	.0761	.1198	.1758	.2435	.3208	.4049	.4922	.5862	.5000	8
8		.0003	.0011	.0034	.0082	.0172	.0324	.0557	.0889	.1331	.1887	.2552	.3311	.4137	.5000	7
9		.0001	.0003	.0009	.0025	.0058	.0120	.0226	.0391	.0635	.0972	.1414	.1968	.2628	.3383	6
10			.0001	.0002	.0007	.0017	.0038	.0079	.0148	.0261	.0431	.0677	.1014	.1454	.2005	5
11				.0001	.0001	.0004	.0010	.0023	.0047	.0090	.0161	.0273	.0441	.0683	.1013	4
12						.0001	.0002	.0005	.0012	.0025	.0049	.0089	.0157	.0262	.0420	3
13								.0001	.0002	.0005	.0011	.0022	.0043	.0077	.0134	2
14										.0001	.0002	.0004	.0008	.0016	.0030	1
15													.0001	.0002	.0003	0
	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	p \ r

n=28, m=20

r\p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
0	.5918	.3452	.1983	.1121	.0623	.0340	.0182	.0095	.0049	.0024	.0012	.0006	.0003	.0001	.0001	20
1	.4082	.6548	.4570	.3114	.2038	.1288	.0787	.0467	.0268	.0149	.0081	.0042	.0021	.0010	.0005	19
2	.1616	.3609	.5430	.5265	.3914	.2789	.1910	.1261	.0803	.0493	.0292	.0167	.0092	.0049	.0025	18
3	.0619	.1789	.3245	.4735	.6086	.4546	.3426	.2482	.1731	.1162	.0751	.0468	.0280	.0161	.0089	17
4	.0229	.0818	.1756	.2934	.4209	.5454	.5077	.3985	.3010	.2189	.1532	.1031	.0667	.0414	.0246	16
5	.0081	.0349	.0873	.1658	.2653	.3774	.4923	.5544	.4488	.3503	.2633	.1905	.1325	.0884	.0565	15
6	.0028	.0140	.0402	.0861	.1533	.2395	.3393	.4456	.5512	.4952	.3968	.3065	.2279	.1628	.1115	14
7	.0009	.0053	.0172	.0413	.0815	.1397	.2152	.3048	.4034	.5048	.5387	.4413	.3489	.2654	.1940	13
8	.0003	.0019	.0068	.0183	.0399	.0750	.1256	.1922	.2729	.3643	.4613	.5800	.4844	.3905	.3032	12
9	.0001	.0006	.0025	.0075	.0180	.0370	.0674	.1115	.1702	.2430	.3275	.4200	.5156	.5265	.4320	11
10		.0002	.0009	.0029	.0075	.0168	.0332	.0593	.0974	.1490	.2145	.2924	.3801	.4735	.5680	10
11		.0001	.0003	.0010	.0028	.0069	.0149	.0288	.0509	.0836	.1287	.1872	.2586	.3413	.4319	9
12			.0001	.0003	.0010	.0026	.0061	.0127	.0241	.0426	.0703	.1093	.1610	.2259	.3031	8
13				.0001	.0003	.0009	.0022	.0050	.0103	.0195	.0346	.0575	.0906	.1357	.1939	7
14					.0001	.0003	.0007	.0018	.0039	.0079	.0151	.0270	.0455	.0730	.1114	6
15						.0001	.0002	.0005	.0013	.0028	.0058	.0111	.0201	.0345	.0564	5
16							.0001	.0001	.0004	.0008	.0019	.0039	.0076	.0140	.0246	4
17									.0001	.0002	.0005	.0011	.0023	.0047	.0088	3
19											.0001	.0002	.0006	.0012	.0024	2
19													.0001	.0002	.0004	1
20																0
	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	p\r

n=28, m=25

r\p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
0	.5370	.2837	.1473	.0751	.0376	.0184	.0088	.0041	.0019	.0008	.0004	.0002	.0001			25
1	.4630	.7163	.3640	.2253	.1333	.0759	.0416	.0221	.0113	.0056	.0027	.0012	.0006	.0002	.0001	24
2	.2096	.4435	.6361	.4092	.2770	.1786	.1101	.0651	.0370	.0202	.0106	.0053	.0026	.0012	.0005	23
3	.0927	.2509	.4281	.5908	.4411	.3156	.2151	.1401	.0874	.0522	.0299	.0164	.0086	.0043	.0021	22
4	.0400	.1328	.2654	.4145	.5589	.4662	.3464	.2456	.1665	.1080	.0670	.0397	.0225	.0122	.0063	21
5	.0168	.0665	.1535	.2701	.4020	.5338	.4874	.3722	.2719	.1899	.1269	.0810	.0494	.0287	.0159	20
6	.0069	.0317	.0836	.1647	.2701	.3900	.5126	.5061	.3949	.2950	.2110	.1442	.0942	.0586	.0348	19
7	.0027	.0144	.0430	.0943	.1703	.2673	.3783	.4939	.5232	.4152	.3158	.2300	.1602	.1064	.0673	18
8	.0010	.0063	.0210	.0510	.1009	.1722	.2627	.3667	.4768	.5394	.4338	.3348	.2475	.1748	.1177	17
9	.0004	.0026	.0097	.0260	.0563	.1044	.1717	.2567	.3552	.4607	.5547	.4512	.3524	.2636	.1883	16
10	.0001	.0010	.0043	.0125	.0296	.0595	.1055	.1692	.2496	.3434	.4453	.5698	.4679	.3691	.2787	15
11		.0004	.0018	.0057	.0147	.0319	.0610	.1048	.1652	.2416	.3315	.4302	.5847	.4841	.3849	14
12		.0001	.0007	.0025	.0068	.0161	.0331	.0610	.1027	.1599	.2327	.3191	.4153	.5998	.5000	13
13			.0003	.0010	.0030	.0076	.0168	.0332	.0598	.0992	.1535	.2229	.3063	.4003	.5000	12
14			.0001	.0004	.0012	.0033	.0080	.0169	.0325	.0575	.0947	.1459	.2123	.2929	.3849	11
15				.0001	.0005	.0014	.0035	.0080	.0164	.0310	.0544	.0891	.1375	.2008	.2787	10
16					.0002	.0005	.0014	.0035	.0076	.0154	.0289	.0503	.0826	.1281	.1883	9
17					.0001	.0002	.0005	.0014	.0033	.0070	.0140	.0261	.0457	.0754	.1177	8
18						.0001	.0002	.0005	.0013	.0029	.0062	.0123	.0230	.0405	.0673	7
19							.0001	.0002	.0004	.0011	.0025	.0052	.0104	.0196	.0348	6
20									.0001	.0004	.0009	.0019	.0042	.0084	.0159	5
21										.0001	.0003	.0006	.0014	.0031	.0063	4
22											.0001	.0002	.0004	.0009	.0021	3
23													.0001	.0002	.0005	2
24															.0001	1
25																0
	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	p\r

n=28, m=26

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
0	.5273	.2734	.1393	.0696	.0341	.0164	.0077	.0035	.0016	.0007	.0003	.0001	.0001			26
1	.4727	.7265	.3482	.2117	.1229	.0686	.0369	.0191	.0096	.0046	.0022	.0010	.0004	.0002	.0001	25
2	.2188	.4583	.6517	.3892	.2587	.1636	.0989	.0573	.0319	.0170	.0087	.0043	.0020	.0010	.0004	24
3	.0991	.2649	.4469	.6108	.4172	.2931	.1860	.1251	.0764	.0446	.0250	.0134	.0069	.0034	.0016	23
4	.0438	.1435	.2830	.4369	.5827	.4388	.3201	.2226	.1478	.0937	.0568	.0329	.0182	.0097	.0048	22
5	.0189	.0737	.1677	.2911	.4276	.5613	.4566	.3423	.2451	.1675	.1094	.0682	.0406	.0231	.0124	21
6	.0079	.0361	.0937	.1819	.2941	.4189	.5434	.4720	.3613	.2644	.1849	.1235	.0787	.0478	.0276	20
7	.0032	.0169	.0496	.1071	.1902	.2942	.4100	.5279	.4859	.3780	.2815	.2004	.1362	.0882	.0543	19
8	.0013	.0076	.0249	.0597	.1160	.1949	.2921	.4013	.5141	.4986	.3930	.2967	.2141	.1475	.0967	18
9	.0005	.0033	.0119	.0315	.0669	.1218	.1965	.2887	.3927	.5013	.5107	.4067	.3104	.2265	.1575	17
10	.0002	.0013	.0054	.0158	.0364	.0719	.1248	.1962	2841	.3839	.4893	.5223	.4196	.3231	.2376	16
11	.0001	.0005	.0023	.0075	.0188	.0401	.0748	.1259	.1943	.2786	.3750	.4776	.5337	.4318	.3347	15
12		.0002	.0010	.0034	.0091	.0212	.0422	.0761	.1254	.1911	.2722	.3655	.4662	.5451	.4435	14
13		.0001	.0004	.0014	.0042	.0105	.0224	.0433	.0761	.1235	.1866	.2648	.3558	.4549	.5565	13
14			.0001	.0006	.0018	.0050	.0112	.0231	.0434	.0749	.1204	.1809	.2567	.3455	.4435	12
15				.0002	.0007	.0023	.0052	.0115	.0231	.0425	.0727	.1159	.1742	.2476	.3347	11
16				.0001	.0003	.0010	.0023	.0053	.0114	.0225	.0410	.0693	.1105	.1663	.2376	10
17					.0001	.0005	.0009	.0023	.0052	.0110	.0214	.0385	.0652	.1040	.1575	9
18						.0001	.0003	.0009	.0022	.0049	.0103	.0196	.0354	.0601	.0967	8
19							.0001	.0003	.0008	.0020	.0045	.0091	.0175	.0317	.0543	7
20								.0001	.0003	.0007	.0018	.0038	.0078	.0151	.0276	6
21									.0001	.0002	.0007	.0014	.0031	.0063	.0124	5
22										.0001	.0002	.0004	.0010	.0023	.0048	4
23												.0001	.0003	.0007	.0016	3
24													.0001	.0002	.0004	2
25															.0001	1
26																0
	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	p \ r

n=28, m=27

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
0	.5179	.2636	.1318	.0647	.0311	.0146	.0067	.0030	.0013	.0006	.0002	.0001				27
1	.4821	.7364	.3333	.1990	.1134	.0620	.0327	.0166	.0082	.0039	.0018	.0008	.0003	.0001	.0003	26
2	.2279	.4727	.6667	.3702	.2418	.1501	.0889	.0505	.0275	.0144	.0072	.0035	.0016	.0007	.0012	25
3	.1055	.2787	.4653	.6299	.3946	.2723	.1787	.1118	.0668	.0382	.0209	.0109	.0055	.0026	.0037	24
4	.0478	.1544	.3007	.4587	.5474	.4128	.2957	.2017	.1312	.0815	.0483	.0273	.0148	.0076	.0097	23
5	.0211	.0812	.1822	.3120	.4526	.5872	.4274	.3146	.2208	.1478	.0944	.0575	.0334	.0185	.0219	22
6	.0091	.0408	.1043	.1995	.3180	.4467	.5726	.4396	.3302	.2368	.1620	.1057	.0658	.0389	.0438	21
7	.0038	.0197	.0567	.1205	.2106	.3208	.4410	.5604	.4503	.3435	.2505	.1743	.1156	.0730	.0793	20
8	.0016	.0091	.0294	.0690	.1320	.2178	.3216	.4353	.5497	.4599	.3552	.2523	.1849	.1242	.1314	19
9	.0006	.0041	.0145	.0375	.0783	.1399	.2221	.3209	.4296	.5401	.4687	.3655	.2726	.1940	.2019	18
10	.0002	.0017	.0068	.0194	.0441	.0852	.1453	.2243	.3190	.4238	.5313	.4769	.3748	.2817	.2896	17
11	.0001	.0007	.0031	.0095	.0235	.0791	.0900	.1485	.2248	.3162	.4178	.5230	.4848	.3832	.3911	16
12		.0003	.0013	.0045	.0119	.0268	.0527	.0930	.1500	.2239	.3125	.4116	.5152	.4925	.5000	15
13		.0001	.0005	.0020	.0057	.0138	.0292	.0550	.0946	.1500	.2217	.3080	.4051	.5075	.5000	14
14			.0002	.0008	.0026	.0067	.0152	.0307	.0562	.0949	.1487	.2184	.3027	.3983	.3911	13
15			.0001	.0003	.0011	.0031	.0075	.0161	.0314	.0564	.0939	.1461	.2140	.2966	.2896	12
16				.0001	.0004	.0013	.0034	.0079	.0164	.0314	.0556	.0918	.1424	.2085	.2019	11
17					.0002	.0005	.0015	.0036	.0080	.0163	.0307	.0539	.0887	.1375	.1314	10
18					.0001	.0002	.0006	.0015	.0036	.0079	.0158	.0294	.0513	.0845	.0793	9
19						.0001	.0002	.0006	.0015	.0035	.0074	.0147	.0274	.0479	.0438	8
20							.0001	.0002	.0006	.0014	.0032	.0067	.0134	.0249	.0219	7
21								.0001	.0002	.0005	.0012	.0028	.0059	.0116	.0097	6
22									0001	.0002	.0004	.0010	.0023	.0048	.0037	5
23											.0001	.0003	.0008	.0017	.0012	4
24												.0001	.0002	.0005	.0003	3
25													.0001	.0001	.0001	2
26																1
27																0
	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	p \ r

n=28, m=28

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
0	.5088	.2544	.1249	.0601	.0284	.0131	.0059	.0026	.0011	.0005	.0002	.0001				28
1	.4912	.5134	.3191	.1872	.1047	.0562	.0290	0145	.0070	.0032	.0015	.0006	.0003	.0001		27
2	.1368	.4866	.5171	.3521	.2260	.1377	.0801	.0445	.0237	.0121	.0060	.0028	.0013	.0005	.0002	26
3	.1120	.2923	.4829	.5203	.3731	.2530	.1629	.1000	.0585	.0328	.0175	.0090	.0044	.0020	.0009	25
4	.0518	.1653	.3180	.4797	.5233	.3882	.2732	.1828	.1165	.0708	.0411	.0227	.0120	.0060	.0029	24
5	0235	.0889	.1967	.3326	.4767	.5262	.3997	.2888	.1988	.1303	.0815	.0485	.0275	.0148	.0076	23
6	.0104	.0458	.1152	.2172	.3416	.4738	.5290	.4089	.3014	.2118	.1419	.0905	.0550	.0317	.0174	22
7	.0045	.0227	.0642	.1344	.2314	.3473	.4710	.5318	.4166	.3117	.2225	.1515	.0981	.0605	.0353	21
8	.0019	.0108	.0342	.0789	.1485	.2413	.3509	.4682	.5346	.4231	.3203	.2314	.1594	.1044	.0649	20
9	.0008	.0049	.0174	.0442	.0905	.1591	.2483	.3530	.4654	.5374	.4288	.3275	.2388	.1658	.1095	19
10	.0003	.0022	.0085	.0235	.0525	.0996	.1668	.2531	.3540	.4626	.5404	.4339	.3336	.2448	.1710	18
11	.0001	.0009	.0039	.0120	.0289	.0592	.1065	.1725	.2562	.3540	.4597	.5434	.4385	.3387	.2496	17
12		.0004	.0018	.0058	.0151	.0334	.0645	.1115	.1763	.2579	.3532	.4566	.5466	.4426	.3430	16
13		.0001	.0007	.0027	.0075	.0179	.0370	.0684	.1150	.1785	.2584	.3516	.4534	.5500	.4465	15
14		0001	.0003	.0012	.0036	.0091	.0201	.0397	.0711	.1171	.1794	.2577	.3494	.4500	.5535	14
15			.0001	.0005	.0016	.0043	.0103	.0217	.0415	.0726	.1179	.1791	.2560	.3466	.4465	13
16				.0002	.0007	.0020	.0050	.0112	.0228	.0424	.0731	.1175	.1776	.2533	.3430	12
17				.0001	.0003	.0008	.0023	.0054	.0117	.0232	.0425	.0725	.1160	.1748	.2496	11
18					.0001	.0003	.0010	.0024	.0056	.0119	.0231	.0419	.0710	.1133	.1710	10
19						.0001	.0004	.0010	.0025	.0056	.0117	.0224	.0404	.0684	.1095	9
20							.0001	.0004	.0010	.0025	.0054	.0111	.0212	.0382	.0649	8
21								.0001	.0004	.0010	.0023	.0050	.0102	.0195	.0353	7
22									.0001	.0004	.0009	.0020	.0044	.0090	.0174	6
23										.0001	.0003	.0007	.0017	.0037	.0076	5
24											.0001	.0002	.0006	.0013	.0029	4
25												.0001	.0002	.0004	.0009	3
26														.0001	.0002	2
27																1
28																0
	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	p \ r

n=29, m=15

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
0	.6667	.4394	.2861	.1839	.1166	.0792	.0449	.0272	.0162	.0094	.0054	.0030	.0016	.0009	.0005	15
1	.3333	.7459	.5927	.4531	.3353	.2411	.1688	.1152	.0767	.0498	.0315	.0194	.0116	.0068	.0038	14
2	.1060	.2541	.4073	.5469	.5709	.4581	.3564	.2693	.1978	.1412	.0980	.0661	.0432	.0274	0169	13
3	.0320	.1008	.1980	.3114	.4291	.5419	.6437	.4601	.3675	.2852	.2150	.1574	.1117	.0768	.0511	12
4	.0091	.0360	.0846	.1544	.2411	.3387	.4403	.5399	.5527	.4608	.3736	.2943	.2250	.1668	.1197	11
5	.0024	.0117	.0322	.0676	.1192	.1863	.2661	.3547	.4473	.5392	.5480	.4605	.3764	.2988	.2299	10
6	.0006	.0035	.0110	.0263	.0521	.0904	.1421	.2065	.2818	.3648	.4520	.6287	.5446	.4595	.3768	9
7	.0001	.0009	.0034	.0091	.0202	.0388	.0669	.1062	.1572	.2195	.2916	.3713	.4554	.6248	.5422	8
8		.0002	.0009	.0028	.0069	.0146	.0277	.0480	.0771	.1164	.1664	.2271	.2974	.3752	.4578	7
9		.0001	.0002	.0008	.0021	.0048	.0100	.0188	.0329	.0538	.0830	.1218	.1710	.2305	.2997	6
10			.0001	.0002	.0005	.0013	.0031	.0063	.0120	.0213	.0355	.0562	.0849	.1229	.1711	5
11					.0001	.0003	.0008	.0018	.0037	.0071	.0128	.0218	.0355	.0554	.0829	4
12						.0001	.0002	.0004	.0009	.0019	.0037	.0069	.0121	.0203	.0328	3
13								.0001	.0002	.0004	.0008	.0017	.0031	.0057	.0100	2
14										.0001	.0001	.0003	.0006	.0011	.0021	1
15													.0001	.0001	.0002	0
	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	

n=29, m=20

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
0	.6000	.3551	.2071	.1190	.0673	.0374	.0204	.0109	.0057	.0029	.0015	.0007	.0003	.0002	.0001	20
1	.4000	.6449	.4715	.3260	.2167	.1393	.0867	.0524	.0308	.0175	.0097	.0052	.0027	.0014	.0007	19
2	.1551	.3490	.5284	.5444	.4103	.2969	.2068	.1390	.0903	.0567	.0345	.0202	.0115	.0063	.0033	18
3	.0582	.1695	.3100	.4556	.5897	.4770	.3650	.2690	.1911	.1310	.0866	.0553	.0340	.0201	.0115	17
4	.0210	.0759	.1643	.2969	.4005	.5230	.5330	.4247	.3263	.2419	.1729	.1191	.0791	.0505	.0310	16
5	.0073	.0317	.0799	.1532	.2474	.3550	.4670	.5820	.4784	.3798	.2911	.2152	.1533	.1051	.0692	15
6	.0024	.0124	.0360	.0778	.1399	.2206	.3153	.4180	.5216	.5276	.4303	.3390	.2578	.1889	.1330	14
7	.0008	.0046	.0150	.0365	.0727	.1258	.1956	.2797	.3738	.4723	.5736	.4783	.3858	.3005	.2254	13
8	.0002	.0016	.0058	.0158	.0348	.0659	.1115	.1722	.2471	.3332	.4264	.5217	.5245	.4318	.3434	12
9	.0001	.0005	.0021	.0063	.0153	.0317	.0583	.0974	.1502	.2167	.2954	.3830	.4754	.5694	.4773	11
10		.0002	.0007	.0023	.0062	.0140	.0279	.0504	.0837	.1294	.1883	.2597	.3415	.4306	.5227	10
11			.0002	.0008	.0023	.0056	.0122	.0238	.0425	.0705	.1098	.1615	.2258	.3016	.3866	9
12			.0001	.0002	.0008	.0021	.0048	.0102	.0195	.0348	.0581	.0913	.1361	.1934	.2630	8
13				.0001	.0002	.0007	.0017	.0039	.0081	.0154	.0276	.0465	.0741	.1123	.1625	7
14					.0001	.0002	.0005	.0013	.0030	.0061	.0117	.0210	.0359	.0582	.0899	6
15						.0001	.0002	.0004	.0009	.0021	.0043	.0083	.0152	.0264	.0437	5
16								.0001	.0003	.0006	.0014	.0028	.0055	.0103	.0182	4
17									.0001	.0001	.0004	.0008	.0016	.0033	.0063	3
18											.0001	.0002	.0004	.0008	.0017	2
19													.0001	.0001	.0003	1
20																0
	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	p \ r

n=29, m=25

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
0	.5455	.2929	.1548	.0804	.0410	.0205	.0100	.0048	.0023	.0010	.0005	.0002	.0001			25
1	.4545	.7071	.3780	.2379	.1434	.0832	.0466	.0253	.0133	.0067	.0033	.0016	0007	.0003	.0001	24
2	.2020	.4307	.6220	.4270	.2939	.1929	.1213	.0733	.0426	.0239	.0129	.0067	.0033	.0016	.0007	23
3	.0877	.2394	.4120	.5730	.4621	.3361	.2334	.1551	.0989	.0605	.0356	.0201	.0109	.0056	.0028	22
4	.0371	.1244	.2509	.3955	.5379	.4902	.3703	.2676	.1852	.1229	.0781	.0476	.0278	.0156	.0083	21
5	.0153	.0611	.1424	.2532	.3804	.5098	.5141	.3995	.2974	.2123	.1452	.0952	.0597	.0359	.0206	20
6	.0061	.0286	.0760	.1514	.2510	.3660	.4859	.5355	.4252	.3241	.1369	.1661	.1115	.0716	.0439	19
7	.0024	.0127	.0383	.0850	.1551	.2462	.3521	.4645	.5552	.4486	.3483	.2596	.1855	.1269	.0829	18
8	.0009	.0054	.0183	.0450	.0900	.1554	.2397	.3384	.4448	.5739	.4702	.3708	.2808	.2039	.1416	17
9	.0003	.0022	.0083	.0225	.0492	.0922	.1533	.2320	.3247	.4262	.5298	.4907	.3919	.3008	.2212	16
10	0001	.0009	.0036	.0106	.0253	.0514	.0922	.1495	.2233	.3110	.4083	.5093	5105	.4122	.3197	15
11		0003	.0014	.0047	.0122	.0269	.0520	.0905	.1443	.2138	.2971	.3907	.4895	.5298	.4318	14
12		.0001	.0006	0020	.0056	.0132	.0275	.0514	.0875	.1380	.2035	.2829	.3733	.4702	.5490	13
13			.0002	.0008	.0024	.0061	.0136	.0273	.0496	.0834	.1308	.1926	.2684	.3558	.4510	12
14			.0001	.0003	.0010	.0026	.0063	.0135	.0262	.0470	.0784	.1226	.1809	.2533	.3380	9
15				.0001	.0004	.0010	.0027	.0062	.0129	.0246	.0437	.0726	.1137	.1685	.2376	10
16					.0001	.0004	.0011	.0026	.0058	.0119	.0225	.0398	.0662	.1041	.1554	9
17						.0001	.0004	.0010	.0024	.0053	.0106	.0200	.0354	.0592	.0938	8
18							.0001	.0004	.0009	.0021	.0045	.0091	.0172	.0306	.0517	7
19								.0001	.0003	.0008	.0017	.0037	.0075	.0142	.0256	6
20									.0001	.0002	.0006	.0013	.0029	.0058	.0112	5
21										.0001	.0002	.0004	.0010	.0021	.0042	4
22												.0001	.0003	.0006	.0013	3
23													.0001	.0001	.0003	2
24															.0001	1
25																0
	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	p \ r

n=29, m=27

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
0	.5263	.2726	.1388	.0694	.0340	.0164	.0077	.0035	.0016	.0007	.0003	.0001	.0001			27
1	.4737	.7274	.3469	.2108	.1224	.0683	.0368	.0192	.0096	.0047	.0022	.0010	.0004	.0002	.0001	26
2	.2199	.4598	.6531	.3875	.2575	.1629	.0986	.0572	.0319	.0171	.0088	.0044	.0021	.0010	.0004	25
3	.1000	.2666	.4489	.6125	.4152	.2916	.1951	.1247	.0763	.0447	.0252	.0136	.0070	.0035	.0016	24
4	.0444	.1450	.2853	.4893	.5848	.4364	.3183	.2215	.1479	.0937	.0570	.0332	.0185	.0099	.0050	23
5	.0193	.0749	.1698	.2937	.4304	.5636	.4539	.3403	.2438	.1670	.1094	.0685	.0410	.0235	.0128	22
6	.0082	.0369	.0954	.1844	.2972	.4219	.5461	.4689	.3590	.2630	.1843	.1235	.0791	.0484	.0282	21
7	.0034	.0175	.0509	.1093	.1933	.2976	.4135	.5211	.4824	.3754	.2799	.1997	.1362	.0887	.0551	20
8	.0014	.0079	.0258	.0613	.1187	.1982	.2961	.4054	.5176	.4948	.3901	.2949	.2134	.1476	.0974	19
9	.0005	.0035	.0125	.0327	.0690	.1248	.2004	.2932	.3972	.5052	.5064	.4035	.3085	.2257	.1578	18
10	.0002	.0014	.0058	.0165	.0380	.0743	.1283	.2007	.2892	.3889	.4936	.5176	.4160	.3209	.2369	17
11	.0001	.0006	.0025	.0080	.0198	.0419	.0777	.1300	.1994	.2842	.3804	.4824	.5284	.4278	.3323	16
12		.0002	.0011	.0036	.0098	.0223	.0444	.0796	.1300	.1967	.2783	.3716	.4716	.5392	.4391	15
13		.0001	.0004	.0016	.0046	.0112	.0240	.0459	.0800	.1286	.1928	.2717	.3625	.4608	.5500	14
14			.0002	.0006	.0020	.0053	.0122	.0250	.0464	.0793	.1260	.1878	.2643	.3530	.4500	13
15			.0001	.0003	.0008	.0024	.0058	.0127	.0252	.0459	.0775	.1223	.1818	.2560	.3430	12
16				.0001	.0003	.0010	.0026	.0061	.0128	.0249	.0446	.0747	.1175	.1748	.2469	11
17					.0001	.0004	.0011	.0027	.0061	.0125	.0239	.0425	.0710	.1118	.1668	10
18						.0001	.0004	.0011	.0027	.0058	.0119	.0224	.0398	.0664	.1051	9
19							.0001	.0004	.0011	.0025	.0054	.0109	.0205	.0364	.0611	8
20								.0001	.0004	.0010	.0022	.0048	.0096	.0182	.0325	7
21									.0001	.0003	.0008	.0019	.0041	.0082	.0156	6
22										.0001	.0003	.0007	.0015	.0033	.0066	5
23											.0001	.0002	.0005	.0011	.0024	4
24												.0001	.0001	.0003	.0007	3
25														.0001	.0002	2
26																1
27																0
	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	p \ r

n=29, m=28

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
0	.5172	.2632	.1316	.0646	.0311	.0147	.0068	.0031	.0013	.0006	.0002	.0001				28
1	.4828	.7368	.3325	.1986	.1133	.0621	.0328	.0167	.0083	.0039	.0018	.0008	.0004	.0001		27
2	.2287	.4737	.6675	.3692	.2412	.1499	.0890	.0507	.0277	.0146	.0074	.0036	.0017	.0007	.0003	26
3	.1062	.2799	.4665	.6308	.3934	.2717	.1735	.1119	.0671	.0385	.0212	.0112	.0057	.0027	.0013	25
4	.0483	.1555	.3022	.4602	.6066	.4115	.2950	.2015	.1314	.0819	.0488	.0278	.0152	.0079	.0039	24
5	.0215	.0822	.1837	.3139	.4544	.5886	.4258	.3137	.2205	.1480	.0949	.0582	.0340	.0190	.0101	23
6	.0093	.0415	.1057	.2014	.3202	.4488	.5742	.4379	.3292	.2365	.1624	.1065	.0666	.0398	.0226	22
7	.0039	.0202	.0578	.1223	.2130	.3233	.4433	.5621	.4484	.3424	.2502	.1747	.1165	.0741	.0449	21
8	.0016	.0094	.0302	.0705	.1342	.2205	.3245	.4379	.5516	.4577	.3540	.2621	.1855	.1253	.0806	20
9	.0007	.0042	.0150	.0386	.0802	.1425	.2252	.3242	.4325	.5423	.4663	.3642	.2724	.1947	.1328	19
10	.0003	.0018	.0072	.0202	.0455	.0874	.1483	.2279	.3227	.4270	.5337	.4743	.3734	.2815	.2028	18
11	.0001	.0008	.0033	.0100	.0246	.0508	.0926	.1520	.2288	.3203	.4214	.5257	.4819	.3817	.2895	17
12		.0003	.0014	.0048	.0126	.0281	.0548	.0961	.1539	.2283	.3170	.4156	.5181	.4892	.3894	16
13		.0001	.0006	.0022	.0061	.0147	.0307	.0576	.0981	.1544	.2267	.3131	.4095	.5107	.4964	15
14			.0002	.0009	.0028	.0073	.0163	.0326	.0592	.0989	.1537	.2240	.3083	.4032	.5036	14
15			.0001	.0004	.0013	.0034	.0081	.0174	.0336	.0597	.0984	.1517	.2202	.3028	.3965	13
16				.0001	.0005	.0015	.0038	.0087	.0180	.0339	.0593	.0969	.1486	.2154	.2966	12
17					.0002	.0006	.0017	.0041	.0090	.0181	.0335	.0581	.0943	.1444	.2096	11
18					.0001	.0002	.0007	.0018	.0042	.0090	.0177	.0325	.0559	.0907	.1391	10
19						.0001	.0003	.0007	.0018	.0041	.0086	.0169	.0308	.0530	.0861	9
20							.0001	.0003	.0007	.0017	.0039	.0081	.0156	.0286	.0493	8
21								.0001	.0003	.0007	.0016	.0035	.0072	.0141	.0258	7
22									.0001	.0002	.0006	.0014	.0030	.0062	.0122	6
23										.0001	.0002	.0005	.0011	.0024	.0051	5
24											.0001	.0002	.0004	.0008	.0018	4
25													.0001	.0002	.0006	3
26														.0001	.0001	2
27																1
28																0
	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	p \ r

n=29, m=29

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
0	.5085	.2542	.1249	.0602	.0285	.0132	.0060	.0026	.0011	.0005	.0002	.0001				29
1	.4915	.5129	.3189	.1872	.1049	.0564	.0293	.0147	.0071	.0033	.0015	.0007	.0003	.0001		28
2	.2373	.4871	.5165	.3518	.2260	.1380	.0804	.0449	.0241	.0124	.0061	.0029	.0013	.0006	.0002	27
3	.1124	.2930	.4835	.5196	.3728	.2531	.1633	.1005	.0591	.0333	.0179	.0093	.0046	.0022	.0010	26
4	.0522	.1660	.3189	.4804	.5224	.3878	.2733	.1833	.1172	.0716	.0418	.0233	.0124	.0063	.0031	25
5	.0237	.0896	.1978	.3337	.4775	.5252	.3992	.2890	.1993	.1312	.0824	.0494	.0283	.0154	.0080	24
6	.0106	.0464	.1162	.2186	.3429	.4748	.5279	.4084	.3015	.2125	.1429	.0917	.0561	.0327	.0182	23
7	.0046	.0231	.0651	.1357	.2329	.3488	.4721	.5305	.4160	.3119	.2234	.1527	.0996	.0619	.0366	22
8	.0019	.0110	.0348	.0801	.1501	.2431	.3526	.4695	.5332	.4226	.3206	.2325	.1609	.1062	.0667	21
9	.0008	.0051	.0178	.0451	.0920	.1610	.2504	.3550	.4668	.5359	.4282	.3278	.2400	.1677	.1116	20
10	.0003	.0023	.0088	.0242	.0537	.1014	.1691	.2556	.3562	.4641	.5387	.4332	.3340	.2462	.1731	19
11	.0001	.0010	.0041	.0124	.0298	.0607	.1086	.1751	.2590	.3564	.4613	.5415	.4378	.3393	.2513	18
12		.0004	.0019	.0061	.0158	.0346	.0663	.1141	.1793	.2611	.3559	.4585	.5445	.4419	.3437	17
13		.0002	.0008	.0028	.0080	.0188	.0385	.0706	.1180	.1820	.2619	.3547	.4555	.5476	.4457	16
14		.0001	.0003	.0013	.0038	.0096	.0212	.0415	.0737	.1205	.1834	.2617	.3529	.4524	.5509	15
15			.0001	.0005	.0017	.0047	.0110	.0230	.0436	.0756	.1218	.1835	.2605	.3505	.4491	14
16				.0002	.0007	.0022	.0054	.0121	.0243	.0449	.0765	.1219	.1826	.2584	.3474	13
17				.0001	.0003	.0009	.0025	.0060	.0128	.0251	.0453	.0764	.1209	.1805	.2553	12
18					.0001	.0004	.0011	.0028	.0063	.0131	.0252	.0450	.0754	.1189	.1774	11
19						.0001	.0004	.0012	.0029	.0064	.0131	.0248	.0440	.0734	.1158	10
20							.0002	.0005	.0012	.0029	.0063	.0127	.0239	.0422	.0705	9
21							.0001	.0002	.0005	.0012	.0028	.0060	.0119	.0224	.0397	8
22								.0001	.0002	.0005	.0011	.0026	.0054	.0109	.0205	7
23									.0001	.0002	.0004	.0010	.0022	.0048	.0095	6
24											.0001	.0003	.0008	.0018	.0039	5
25												.0001	.0003	.0006	.0014	4
26													.0001	.0002	.0004	3
27															.0001	2
28																1
29																0
	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	p \ r

n=30, m=5

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
0	.8612	.7381	.6295	.5342	.4508	.3780	.3150	.2607	.2141	.1745	.1409	.1127	.0892	.0689	.0540	.0410	5
1	.1388	.2617	.3703	.4658	.5492	.6219	.6951	.6331	.5710	.5099	.4509	.3945	.3414	.2912	.2467	.2056	4
2	.0158	.0447	.0842	.1319	.1858	.2439	.3047	.3669	.4289	.4899	.5490	.7132	.6625	.6088	.5551	.5000	3
3	.0014	.0053	.0127	.0242	.0404	.0614	.0875	.1186	.1544	.1946	.2390	.2868	.3374	.3903	.4446	.5000	2
4	.0001	.0004	.0012	.0027	.0053	.0093	.0151	.0231	.0336	.0470	.0638	.0840	.1081	.1363	.1687	.2056	1
5			.0001	.0001	.0003	.0006	.0012	.0021	.0034	.0053	.0080	.0116	.0164	.0227	.0308	.0410	0
	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	p \ r

n=30, m=10

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
0	.7562	.5671	.4217	.3108	.2267	.1637	.1169	.0826	.0575	.0395	.0268	.0179	.0117	.0075	.0047	.0029	10
1	.2438	.4328	.5782	.6468	.5416	.4444	.3577	.2828	.2193	.1671	.1251	.0918	.0660	.0465	.0320	.0215	9
2	.0548	.1420	.2453	.3532	.4583	.5555	.6204	.5361	.4542	.3777	.3081	.2462	.1928	.1478	.1107	.0810	8
3	.0112	.0387	.0834	.1433	.2154	.2954	.3795	.4637	.5456	.6101	.5346	.4598	.3879	.3207	.2593	.2051	7
4	.0020	.0089	.0234	.0473	.0821	.1273	.1825	.2458	.3159	.3897	.4653	.6754	.6064	.5350	.4629	.3927	6
5	.0003	.0017	.0054	.0127	.0255	.0445	.0713	.1060	.1496	.2010	.2597	.3245	.3935	.4649	.6740	.6072	5
6		.0002	.0010	.0027	.0064	.0125	.0224	.0366	.0569	.0835	.1174	.1588	.2078	.2636	.3257	.3927	4
7			.0001	.0004	.0013	.0027	.0055	.0098	.0169	.0271	.0415	.0611	.0867	.1188	.1582	.2051	3
8					.0002	.0004	.0010	.0019	.0037	.0065	.0108	.0174	.0269	.0400	.0577	.0810	2
9							.0001	.0002	.0005	.0010	.0018	.0033	.0056	.0090	.0141	.0215	1
10										.0001	.0001	.0003	.0006	.0010	.0017	.0029	0
	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	p \ r

n=30, m=15

r\p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
0	.6741	.4493	.2962	.1928	.1239	.0786	.0491	.0302	.0183	.0109	.0063	.0036	.0020	.0011	.0006	.0003	15
1	.3259	.5505	.6060	.4683	.3506	.2554	.1813	.1257	.0850	.0562	.0362	.0228	.0140	.0083	.0049	.0027	14
2	.1013	.2442	.3938	.5316	.5887	.4777	.3762	.2883	.2148	.1559	.1101	.0757	.0507	.0329	.0208	.0126	13
3	.0298	.0946	.1872	.2964	.4111	.5222	.5816	.4840	.3916	.3084	.2363	.1761	.1276	.0897	.0612	.0403	12
4	.0082	.0329	.0781	.1436	.2259	.3194	.4182	.5159	.5788	.4886	.4019	.3218	.2506	.1896	.1391	.0988	11
5	.0021	.0103	.0290	.0613	.1090	.1715	.2470	.3314	.4210	.5111	.5782	.4928	.4093	.3309	.2598	.1979	10
6	.0005	.0029	.0096	.0232	.0464	.0811	1286	.1881	.2588	.3375	.4216	.5071	.5793	.4965	.4145	.3366	9
7	.0001	.0007	.0028	.0078	.0174	.0338	.0590	.0941	.1405	.1976	.2649	3400	.4204	.5034	.5816	.5000	8
8		.0001	.0007	.0023	.0057	.0123	.0237	.0412	.0669	.1016	.1468	.2019	.2666	.3395	.4181	.5000	7
9			.0001	.0006	.0016	.0039	.0083	.0156	.0277	.0454	.0709	.1048	.1483	.2019	.2650	.3366	6
10				.0001	.0004	.0010	.0025	.0050	.0098	.0173	.0293	.0467	.0710	.1038	.1459	.1979	5
11					.0001	.0002	.0006	.0013	.0029	.0054	.0101	.0174	.0285	.0449	.0679	.0988	4
12							.0001	.0002	.0007	.0013	.0028	.0052	.0092	.0157	.0257	.0403	3
13									.0001	.0002	.0006	.0012	.0022	.0041	.0074	.0126	2
14											.0001	.0002	.0003	.0007	.0014	.0027	1
15															.0001	.0003	0
	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	p\r

n=30, m=18

r\p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
0	.6327	.3954	.2440	.1485	.0891	.0527	.0306	.0175	.0098	.0054	.0029	.0015	.0008	.0004	.0002	.0001	18
1	.3673	.6046	.5304	.3861	.2714	1849	.1225	.0789	.0496	.0303	0181	.0105	.0059	.0032	.0017	.0008	17
2	.1301	.3017	.4696	.6139	.4875	.3722	.2748	.1964	.1362	.0916	0598	.0379	.0233	.0138	.0079	.0044	16
3	.0443	.1338	.2532	.3844	.5125	.5672	.4575	.3571	.2699	.1976	.1402	.0963	.0641	.0412	.0256	.0154	15
4	.0144	.0542	.1221	.2136	.3203	.4328	.5425	.5315	.4325	.3412	.2608	.1931	.1384	.0959	.0641	.0414	14
5	.0045	.0203	.0534	.1068	.1797	.2683	.3667	.4685	.4970	.5020	.4098	.3244	.2488	.1847	.1324	.0916	13
6	.0013	.0071	.0214	.0485	.0911	.1502	.2243	.3101	.4030	.4980	.5662	.4756	.3878	.3065	.2345	.1733	12
7	.0004	.0023	.0079	.0201	.0419	.0761	.1242	.1861	.2605	.3443	.4338	.5244	.5387	.4506	.3657	.2873	11
8	.0001	.0007	0027	.0076	.0175	.0349	.0622	.1012	.1527	.2166	.2912	.3740	.2613	.5992	.5127	.4260	10
9		.9002	.0008	.0026	.0066	.0145	.0281	.0496	.0809	.1233	.1775	.2430	.3183	.4008	.4873	.5740	9
10			.0002	.0008	.0022	.0054	.0114	.0218	.0385	.0631	.0974	.1426	.1990	.2663	.3428	.4260	8
11			.0001	.0002	.0007	.0018	0041	.0086	.0163	.0287	.0477	.0748	.1116	.1592	.2180	.2873	7
12				.0001	.0002	.0005	.0013	.0030	.0061	.0115	.0206	.0346	.0553	.0844	.1234	.1733	6
13						.0001	.0004	.0009	.0020	.0040	.0077	.0139	.0238	.0390	.0610	.0916	5
14							.0001	.0002	.0005	.0012	0024	.0047	.0087	.0153	.0257	.0414	4
15									.0001	.0003	.0006	.0013	.0026	.0049	.0089	.0154	3
16										.0001	.0001	.0003	.0006	.0012	.0024	.0044	2
17													.0001	.0002	.0004	.0009	1
18																.0001	0
	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	p\r

n=30, m=20

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
0	.6079	.3648	.2159	.1259	.0723	.0409	.0227	.0124	.0066	.0035	.0017	.0009	.0004	.0002	.0001		20
1	.3921	.6352	.4857	.3403	.2295	.1499	.0950	.0585	.0350	.0204	.0115	.0063	.0033	.0017	.0009	.0003	19
2	.1489	.3374	.5143	.5617	.4287	.3147	.2227	.1523	.1008	.0646	.0401	.0240	.0139	.0078	.0043	.0021	18
3	.0546	.1606	.2961	.4383	.5711	.4987	.3869	.2897	.2094	.1463	.0988	.0644	.0405	.0246	.0145	.0080	17
4	.0193	.0703	.1538	.2612	.3810	.5011	.5571	.4502	.3514	.2650	.1931	.1359	.0922	.0604	.0382	.0230	16
5	.0065	.0286	.0732	.1415	.2307	.3336	.4427	.5497	.5069	.4088	.3189	.2405	.1750	.1229	.0833	.0540	15
6	.0021	.0108	.0322	.0702	.1276	.2028	.2929	.3916	.4929	.5585	.4627	.3712	.2879	.2157	.1560	.1083	14
7	.0006	.0038	.0131	.0320	.0648	.1129	.1777	.2564	.3459	.4413	.5372	.5138	.4219	.3355	.2578	.1907	13
8	.0001	.0012	.0049	.0134	.0302	.0578	.0989	.1541	.2234	.3044	.3934	.4861	.5624	.4717	.3832	.3006	12
9		.0003	.0017	.0051	.0129	.0271	.0504	.0849	.1324	.1932	.2660	.3485	.4374	.6095	.5206	.4310	11
10			.0005	.0017	.0050	.0116	.0235	.0427	.0717	.1123	.1651	.2301	.3062	.3902	.4792	.5689	10
11			.0001	.0005	.0017	.0045	.0100	.0195	.0353	.0595	.0935	.1390	.1968	.2657	.3448	.4310	9
12				.0001	.0005	.0016	.0038	.0080	.0157	.0285	.0479	.0762	.1151	.1651	.2274	.3006	8
13					.0001	.0005	.0013	.0029	.0062	.0122	.0220	.0375	.0606	.0926	.1358	.1907	7
14						.0001	.0004	.0009	.0021	.0046	.0089	.0163	.0284	.0462	.0724	.1083	6
15							.0001	.0002	.0006	.0015	.0031	.0062	.0116	.0201	.0338	.0540	5
16									.0001	.0004	.0009	.0020	.0041	.0074	.0135	.0230	4
17										.0001	.0002	.0005	.0012	.0022	.0044	.0080	3
18												.0001	.0002	.0005	.0011	.0021	2
19														.0001	.0002	.0003	1
20																	0
	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	p \ r

n=30, m=22

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
0	.5849	.3375	.1919	.1075	.0592	.0321	.0171	.0089	.0046	.0023	.0011	.0005	.0003	.0001	.0001		22
1	.4151	.6626	.4452	.3004	.1949	.1221	.0742	.0437	.0250	0139	.0075	.0039	.0020	.0010	.0005	.0002	21
2	.1676	.3714	.5548	.5115	.3768	.2661	.1808	.1185	.0750	.0459	.0272	.0156	.0086	.0046	.0024	.0012	20
3	.0657	.1880	.3377	.4885	.5613	.4366	.3262	.2344	.1623	.1084	.0698	.0434	.0260	.0150	.0083	.0044	19
4	.0250	.0882	.1870	.3089	.4387	.5634	.4867	.3786	.2836	.2048	.1425	.0955	.0617	.0384	.0229	.0131	18
5	.0092	.0388	.0956	.1790	.2829	.3976	.5133	.5305	.4256	.3293	.2457	.1767	.1224	.0816	.0523	.0321	17
6	.0032	.0161	.0455	.0959	.1682	.2589	.3613	.4695	.5700	.4687	.3723	.2854	.2109	.1500	.1026	.0674	16
7	.0011	.0063	.0202	.0478	.0926	.1559	.2363	.3295	.4300	.5313	.5088	.4131	.3238	.2448	.1782	.1245	15
8	.0004	.0023	.0085	.0222	.0473	.0870	.1430	.2147	.2997	.3936	.4912	.5469	.4522	.3615	.2787	.2068	14
9	.0001	.0008	.0033	.0096	.0225	.0451	.0802	.1298	.1941	.2717	.3595	.4531	.5833	.4903	.3986	.3126	13
10		.0003	.0012	.0039	.0099	.0216	.0417	.0726	.1165	.1742	.2450	.3270	.4167	.5096	.5276	.4354	12
11		.0001	.0004	.0014	.0040	.0096	.0200	.0375	.0646	.1033	.1548	.2194	.2958	.3813	.4724	.5645	11
12			.0001	.0005	.0015	.0039	.0089	.0179	.0330	.0564	.0902	.1361	.1946	.2654	.3467	.4354	10
13				.0002	.0005	.0015	.0036	.0078	.0154	.0282	.0482	.0775	.1179	.1706	.2358	.3126	9
14					.0002	.0005	.0013	.0031	.0066	.0129	.0235	.0403	.0652	.1003	.1472	.2068	8
15						.0002	.0005	.0011	.0025	.0053	.0103	.0189	.0326	.0534	.0835	.1245	7
16							.0001	.0003	.0009	.0019	.0040	.0079	.0145	.0254	.0424	.0674	6
17								.0001	.0003	.0006	.0014	.0028	.0057	.0106	.0189	.0321	5
18									.0001	.0002	.0004	.0009	.0019	.0038	.0072	.0131	4
19											.0001	.0002	.0005	.0011	.0023	.0044	3
20													.0001	.0003	.0006	.0012	2
21															.0001	.0002	1
22																	0
	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	p \ r

n=30, m=24

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
0	.5636	.3131	.1713	.0923	.0488	.0254	.0130	.0065	.0032	.0015	.0007	.0003	.0001	.0001			24
1	.4364	.6868	.4086	.2659	.1661	.1000	.0583	.0330	.0181	.0096	.0050	.0025	.0012	.0006	.0003	.0001	23
2	.1859	.4032	.5916	.4656	.3311	.2252	.1471	.0925	.0561	.0329	.0186	.0101	.0054	.0028	.0013	.0006	22
3	.0771	.2151	.3774	.5344	.5077	.3815	.2745	.1896	.1259	.0804	.0495	.0293	.0168	.0093	.0048	.0024	21
4	.0312	.1068	.2205	.3550	.4923	.5420	.4231	.3169	.2281	.1578	.1050	.0671	.0413	.0245	.0139	.0075	20
5	.0122	.0500	.1196	.2177	.3346	.4580	.5769	.4591	.3546	.2634	.1881	.1292	.0853	.0541	.0328	.0191	19
6	.0046	.0222	.0608	.1243	.2111	.3153	.4283	.5410	.4914	.3888	.2962	.2171	.1530	.1036	.0671	.0417	18
7	.0017	.0094	.0291	.0664	.1242	.2024	.2970	.4017	.5086	.5211	.4205	.3270	.2448	.1763	.1217	.0805	17
8	.0006	.0037	.0131	.0332	.0684	.1214	.1925	.2793	.3767	.4789	.5490	.4503	.3564	.2717	.1989	.1397	16
9	.0002	.0014	.0056	.0157	.0353	.0680	.1166	.1818	.2617	.3531	.4510	.5756	.4789	.3848	.2976	.2212	15
10	.0001	.0005	.0022	.0069	.0171	.0357	.0661	.1107	.1702	.2443	.3304	.4244	.5211	.5067	.4122	.3230	14
11		.0001	.0008	.0029	.0077	.0175	.0350	.0629	.1034	.1582	.2271	.3084	.3986	.4934	.5338	.4393	13
12			.0003	.0011	0033	.0080	.0172	.0334	.0586	.0956	.1459	.2099	.2866	.3733	.4663	.5607	12
13			.0001	.0004	.0013	.0034	.0079	.0164	.0308	.0537	.0872	.1332	.1926	.2649	.3482	.4393	11
14				.0001	.0005	.0013	.0033	.0075	.0150	.0279	.0483	.0784	.1203	.1752	.2431	.3230	10
15					.0002	.0005	.0013	.0031	.0067	.0133	.0246	.0425	.0694	.1072	.1575	.2212	9
16						.0002	.0005	.0012	.0027	.0058	.0114	.0211	.0366	.0602	.0938	.1397	8
17						.0001	.0001	.0004	.0010	.0023	.0048	.0095	.0175	.0307	.0508	.0805	7
18								.0001	.0003	.0008	.0018	.0038	.0075	.0140	.0247	.0417	6
19									.0001	.0002	.0006	.0013	.0028	.0056	.0106	.0191	5
20										.0001	.0002	.0004	.0009	.0019	.0039	.0075	4
21												.0001	.0002	.0005	.0012	.0024	3
22													.0001	.0001	.0003	.0006	2
23																.0001	1
24																	0
	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	p \ r

n=30, m=25

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
0	.5536	3020	.1622	.0857	.0445	.0227	.0113	.0055	.0026	.0012	.0005	.0002	.0001				25
1	.4463	.6977	.3917	.2505	.1535	.0907	.0518	.0286	.0153	.0080	.0040	.0019	.0009	.0004	.0002	.0001	24
2	.1946	.4181	.6082	.4444	.3105	.2074	.1328	.0818	.0485	.0278	.0154	.0081	.0043	.0020	.0010	.0004	23
3	.0828	.2282	.3963	.5556	.4825	.3565	.2517	.1704	.1108	.0693	.0417	.0241	.0135	.0071	.0037	.0018	22
4	.0343	.1162	.2371	.3772	.5174	.5134	.3938	.2895	.2042	.1383	.0900	.0562	.0339	.0194	.0108	.0056	21
5	.0138	.0558	.1320	.2371	.3598	.4865	.5397	.4260	.3228	.2350	.1643	.1102	.0712	.0438	.0260	.0146	20
6	.0054	.0254	.0690	.1390	.2331	.3432	.4600	.5635	.4546	.3529	.2633	.1887	.1301	.0856	.0542	.0326	19
7	.0020	.0109	.0340	.0764	.1412	.2264	.3273	.4364	.5451	.4809	.3804	.2896	.2120	.1487	.1002	.0643	18
8	.0007	.0044	.0158	.0395	.0803	.1400	.2185	.3119	.4142	.5189	.5053	.4062	.3145	.2339	.1671	.1141	17
9	.0002	.0016	.0069	.0192	.0429	.0812	.1368	.2095	.2964	.3934	.4946	.5286	.4307	.3380	.2552	.1846	16
10		.0005	.0028	.0088	.0216	.0442	.0804	.1321	.1994	.2811	.3735	.4713	.5510	.4541	.3610	.2756	15
11		.0001	.0010	.0038	.0102	.0225	.0443	.0781	.1259	.1888	.2658	.3538	.4489	.5729	.4773	.3831	14
12			.0003	.0015	.0045	.0107	.0228	.0432	.0744	.1189	.1777	.2502	.3346	.4270	.5949	.5000	13
13			.0001	.0005	.0019	.0047	.0110	.0223	.0410	.0700	.1112	.1659	.2345	.3153	.4050	.5000	12
14				.0001	.0007	.0019	.0049	.0107	.0210	.0383	.0649	.1027	.1538	.2184	.2956	.3831	11
15					.0002	.0007	.0020	.0048	.0099	.0194	.0351	.0590	.0938	.1411	.2018	.2756	10
16						.0002	.0007	.0020	.0042	.0090	.0175	.0312	.0529	.0844	.1279	.1846	9
17							.0002	.0007	.0016	.0038	.0080	.0151	.0273	.0464	.0746	.1141	8
17								.0002	.0005	.0014	.0033	.0066	.0128	.0232	.0396	.0643	7
19									.0001	.0004	.0012	.0025	.0053	.0104	.0189	.0326	6
20										.0001	.0004	.0008	.0019	.0041	.0079	.0146	5
21											.0001	.0002	.0006	.0014	.0028	.0056	4
22													.0001	.0004	.0008	.0018	3
23														.0001	.0001	.0004	2
24																.0001	1
25																	0
	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	p \ r

n=30, m=26

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
0	.5439	.2914	.1536	.0797	.0406	.0203	.0100	.0048	.0022	.0010	.0005	.0002	.0001				26
1	.4561	.7087	.3755	.2360	.1420	.0824	.0462	.0250	.0132	.0067	.0033	.0016	.0007	.0003	.0001	.0001	25
2	.2036	.4332	.6245	.4238	.2912	.1910	.1200	.0725	.0422	.0237	.0128	.0067	.0034	.0016	.0008	.0004	24
3	.0889	.2419	.4151	.5662	.4583	.3328	.2309	.1534	.0978	.0599	.0353	.0200	.0109	.0057	.0029	.0014	23
4	.0379	.1264	.2541	.3894	.5417	.4858	.3664	.2646	.1830	.1215	.0774	.0473	.0278	.0156	.0084	.0043	22
5	.0157	.0625	.1452	.2470	.3848	.5142	.5091	.3950	.2938	.2097	.1435	.0943	.0594	.0358	.0207	.0114	21
6	.0063	.0295	.0781	.1448	.2554	.3711	.4909	.5299	.4201	.3199	.2338	.1641	.1104	.0711	.0439	.0258	20
7	.0025	.0133	.0397	.0777	.1590	.2512	.3578	.4701	.5489	.4428	.3435	.2561	.1832	.1257	.0825	.0517	19
8	.0009	.0057	.0192	.0369	.0932	.1599	.2454	.3447	.4511	.5668	.4638	.3654	.2768	.2012	.1402	.0933	18
9	.0003	.0024	.0088	.0237	.0515	.0959	.1584	.2382	.3317	.4332	.5263	.4836	.3859	.2962	.2182	.1539	17
10	.0001	.0009	.0038	.0114	.0269	.0541	.0964	.1552	.2302	.3187	.4160	.5165	.5025	.4054	.3146	.2343	16
11		.0004	.0016	.0051	.0132	.0288	.0552	.0952	.1506	.2214	.3055	.3993	.4975	.5210	.4243	.3323	15
12		.0001	.0006	.0022	.0061	.0144	.0297	.0549	.0927	.1448	.2118	.2922	.3827	.4790	.5392	.4426	14
13			.0002	.0009	.0027	.0068	.0150	.0297	.0535	.0890	.1382	.2016	.2784	.3662	.4608	.5574	13
14			.0001	.0003	.0011	.0030	.0071	.0150	.0289	.0513	.0845	.1306	.1906	.2643	.3494	.4426	12
15				.0001	.0004	.0012	.0031	.0071	.0146	.0275	.0483	.0792	.1223	.1791	.2496	.3323	11
16					.0001	.0005	.0013	.0031	.0068	.0137	.0256	.0446	.0731	.1133	.1668	.2343	10
17						.0002	.0005	.0013	.0030	.0063	.0125	.0232	.0404	.0664	.1036	.1539	9
18						.0001	.0002	.0005	.0012	.0027	.0056	.0111	.0205	.0358	.0593	.0933	8
19							.0001	.0002	.0004	.0010	.0023	.0048	.0094	.0176	.0309	.0517	7
20									.0001	.0003	.0008	.0019	.0039	.0077	.0145	.0258	6
21										.0001	.0003	.0006	.0014	.0030	.0060	.0114	5
22											.0001	.0002	.0004	.0010	.0021	.0043	4
23												.0001	.0001	.0003	.0006	.0014	3
24														.0001	.0001	.0003	2
25																.0001	1
26																	0
	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	p \ r

n=30, m=28

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
0	.5254	.2718	.1383	.0691	.0339	.0163	.0077	.0036	.0016	.0007	.0003	.0001	.0001				28
1	.4746	.7282	.3457	.2099	.1219	.0681	.0368	.0192	.0097	.0047	.0022	.0010	.0005	.0002	.0001		27
2	.2209	.4612	.6543	.3859	.2564	.1623	.0983	.0572	.0320	.0172	.0089	.0045	.0021	.0010	.0004	.0002	26
3	.1008	.2681	.4507	.6141	.4133	.2902	.1943	.1243	.0762	.0448	.0253	.0137	.0071	.0036	.0017	.0008	25
4	.0450	.1464	.2873	.4414	.5867	.4342	.3167	.2205	.1468	.0936	.0572	.0335	.0188	.0101	.0052	.0025	24
5	.0196	.0760	.1717	.2962	.4329	.5658	.4513	.3384	.2426	.1665	.1093	.0688	.0414	.0238	.0131	.0069	23
6	.0084	.0377	.0970	.1868	.3000	.4248	.5486	.4661	.3568	.2617	.1837	.1235	.0794	.0489	.0287	.0161	22
7	.0035	.0180	.0520	.1113	.1960	.3009	.4168	.5339	.4792	.3730	.2783	.1990	.1362	.0892	.0558	.0332	21
8	.0014	.0082	.0266	.0629	.1212	.2015	.2998	.4090	.5208	.4912	.3874	.2932	.2127	.1477	.0980	.0620	20
9	.0006	.0036	.0130	.0338	.0710	.1277	.2042	.2973	.4013	.5088	.5025	.4005	.3066	.2250	.1580	.1059	19
10	.0002	.0015	.0061	.0173	.0395	.0767	.1317	.2049	.2937	.3934	.4975	.5132	.4127	.3189	.2361	.1672	18
11	.0001	.0006	.0027	.0084	.0208	.0437	.0805	.1338	.2041	.2893	.3854	.4868	.5236	.4242	.3302	.2462	17
12		.0002	.0012	.0039	.0104	.0236	.0466	.0828	.1343	.2019	.2840	.3772	.4764	.5339	.4351	.3407	16
13		.0001	.0005	.0017	.0050	.0121	.0255	.0484	.0837	.1335	.1985	.2779	.3687	.4663	.5441	.4456	15
14			.0002	.0007	.0022	.0058	.0132	.0268	.0492	.0834	.1314	.1942	.2712	.3599	.4559	.5544	14
15			.0001	.0003	.0009	.0027	.0064	.0139	.0273	.0491	.0820	.1282	.1889	.2637	.3505	.4456	13
16				.0001	.0004	.0011	.0029	.0068	.0142	.0272	.0482	.0797	.1240	.1827	.2553	.3407	12
17					.0001	.0005	.0013	.0031	.0069	.0141	.0265	.0464	.0765	.1190	.1754	.2462	11
18						.0002	.0005	.0013	.0031	.0068	.0136	.0252	.0440	.0725	.1129	.1672	10
19						.0001	.0002	.0005	.0013	.0030	.0064	.0127	.0235	.0410	.0676	.1059	9
20							.0001	.0002	.0005	.0012	.0028	.0059	.0115	.0214	.0373	.0620	8
21								.0001	.0002	.0005	.0011	.0025	.0051	.0102	.0188	.0332	7
22									.0001	.0002	.0004	.0009	.0021	.0044	.0086	.0161	6
23											.0001	.0003	.0007	.0017	.0034	.0069	5
24												.0001	.0002	.0005	.0012	.0025	5
25													.0001	.0001	.0003	.0008	3
26															.0001	.0002	2
27																	1
28																	0
	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	p \ r

n=30, m=3

r\p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
0	.5082	.2541	.1249	.0603	.0286	0133	.0060	.0027	.0011	.0005	.0002	.0001					30
1	.4916	.5125	.3187	.1872	.1051	.0567	.0294	.0148	.0071	.0034	.0015	.0007	.0002	.0001			29
2	.2375	4872	.5159	.3515	.2261	.1383	.0807	.0452	.0242	.0126	.0062	.0030	.0013	.0006	.0002	.0001	28
3	.1126	.2934	.4838	.5189	.3725	.2532	.1636	.1009	.0594	.0337	.0182	.0095	0046	.0022	.0010	.0004	27
4	.0523	.1665	.3195	.4808	.5216	.3874	.2732	.1836	.1176	.0722	.0423	.0238	.0126	.0065	.0032	.0014	26
5	.0238	.0900	.1985	.3344	.4782	.5242	.3987	.2890	.1996	.1319	.0832	.0502	.0288	.0159	.0083	.0041	25
6	.0106	.0466	.1169	.2195	.3440	.4756	.5267	.4079	.3014	.2130	.1438	.0927	.0570	.0336	.0187	.0099	24
7	.0046	.0232	.0656	.1366	.2344	.3501	.4731	.5293	.4152	.3119	.2241	.1538	.1008	.0632	.0375	.0212	23
8	.0019	.0111	.0352	.0809	.1517	.2447	.3542	.4704	.5315	.4218	.3207	.2333	.1622	1078	.0680	.0409	22
9	.0008	.0051	.0181	.0457	.0934	.1627	.2524	.3566	.4684	.5342	.4274	.3281	.2410	1693	.1132	.0722	21
10	.0003	.0022	.0089	.0246	.0549	.1030	.1712	.2576	.3585	.4653	.5368	.4325	.3344	.2475	.1748	.1178	20
11	.0001	.0009	.0042	.0126	.0308	.0621	.1106	.1773	.2619	.3585	.4627	.5397	.4372	.3397	.2526	.1794	19
12		.0003	.0019	.0061	.0165	.0357	.0680	.1162	.1825	.2637	.3583	.4600	.5428	.4411	.3440	.2569	18
13		.0001	.0008	.0028	.0084	.0195	.0398	0724	.1211	.1850	.2650	.3573	.4574	.5454	.4445	.3479	17
14			.0003	.0012	.0041	.0101	.0221	.0428	.0765	.1235	.1868	.2651	.3559	.4541	.5481	.4481	16
15			.0001	.0004	.0019	.0050	.0116	.0240	.0460	.0783	.1252	.1874	.2644	.3536	.4514	.5515	15
16				.0001	.0008	.0023	.0057	.0127	.0254	.0470	.0796	.1258	.1869	.2626	.3512	.4481	14
17					.0003	.0010	.0026	.0063	.0134	.0266	.0478	.0799	.1252	.1853	.2604	.3479	13
18					.0001	.0004	.0011	.0029	.0066	.0142	.0270	0479	.0792	.1237	.1831	2569	12
19						.0001	.0004	.0012	.0030	.0071	.0143	.0269	.0470	.0777	.1215	.1794	11
20							.0001	.0004	.0012	0033	.0070	.0141	.0260	.0457	.0756	.1178	10
21								.0001	.0004	.0014	.0031	.0068	.0133	.0249	.0438	.0722	9
22									.0001	.0005	.0012	.0030	.0062	0125	.0234	.0409	8
23										.0001	.0004	.0012	.0026	.0057	.0114	.0212	7
24											.0001	.0004	.0009	.0023	0050	.0099	6
25												.0001	.0002	.0008	.0019	.0041	5
26														.0002	.0006	.0014	4
27															.0001	.0004	3
28																.0001	2
29																	1
30																	0
	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	p\r

n=32, m=20

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
0	.6226	.3832	.2329	.1397	.0827	.0482	.0277	.0157	.0087	.0048	.0025	.0013	.0007	.0003	.0002	.0001		20
1	.3774	.6168	.5124	.3679	.2550	.1714	.1121	.0714	.0443	.0268	.0158	.0091	.0051	.0028	.0015	.0008	.0004	19
2	.1379	.3163	.4876	.6321	.4640	.3495	.2545	.1796	.1230	.0818	.0528	.0332	.0202	.0120	.0069	.0038	.0021	18
3	.0487	.1450	.2709	.4063	.5360	.5394	.4294	.3306	.2466	.1782	1249	.0849	.0560	.0358	0221	.0132	.0076	17
4	.0165	.0611	1354	.2334	.3453	.4606	.5707	.4987	.4003	.3115	.2349	.1718	.1217	.0835	.0554	.0356	.0220	16
5	.0054	.0240	.0619	.1216	.2011	2955	3979	.5013	.5602	.4646	.3739	.2920	.2210	.1621	.1150	.0789	.0523	15
6	.0017	.0088	.0261	.0579	.1067	.1726	.2530	.3439	.4398	.5355	5242	.4339	.3487	.2719	.2053	.1500	.1059	14
7	.0005	.0030	.0102	.0254	.0519	.0922	.1471	.2159	.2963	.3844	.4758	.5798	.4914	.4049	.3239	.2510	.1881	13
8	.0001	.0010	.0037	.0103	.0231	.0451	.0782	.1241	.1830	.2538	.3340	.4202	.5086	.5469	.4605	.3767	.2987	12
9		.0003	.0013	.0038	.0095	.0202	.0380	.0652	.1034	.1535	.2154	.2877	.3680	.4531	.6003	.5155	.4303	11
10		.0001	.0004	.0013	.0036	.0083	.0169	.0312	.0533	.0848	.1270	.1806	.2450	.3189	.3998	.4846	.5697	10
11			.0001	.0004	.0012	C031	0068	.0136	.0249	0425	0681	.1033	1490	2056	.2726	.3483	.4303	9
12				.0001	.0004	.0011	.0025	.0053	.0105	.0193	.0330	.0534	.0821	.1204	.1693	.2290	.2987	8
13					.0001	.0003	.0008	.0019	.0040	.0078	.0143	.0247	.0405	.0634	.0948	.1361	.1881	7
14						.0001	.0002	.0006	.0013	.0028	.0055	.0101	.0177	.0295	.0471	.0720	.1059	6
15							0001	.0002	.0004	0009	.0018	0036	0067	.0120	.0204	.0333	.0523	5
16									.0001	.0002	.0005	.0011	.0022	.0041	.0075	.0132	.0220	5
17											.0001	.0003	.0006	.0012	.0023	.0043	.0076	3
18												.0001	.0001	.0002	.0005	.0011	.0021	2
19															.0001	.0002	.0004	1
20																		0
	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	p \ r

n=32, m=25

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
0	.5690	.3194	.1758	.0965	.0518	.0274	.0142	.0072	.0036	.0018	.0008	.0004	.0002	.0001				25
1	.4310	.6807	.4179	.2751	.1740	.1063	.0630	.0362	.0203	.0110	.0058	.0030	.0015	.0007	.0003	.0002	.0001	24
2	.1815	.3955	.5821	.4772	.3431	.2363	.1566	.1001	.0618	.0370	.0214	.0120	.0065	.0034	.0017	.0008	.0004	23
3	.0745	.2088	.3677	.5227	.5211	.3958	.2884	.2021	.1364	.0889	.0559	.0339	.0199	.0113	.0061	.0032	.0016	22
4	.0298	.1028	.2127	.3439	.4789	.5569	.4394	.3334	.2435	.1713	.1162	.0760	.0480	.0292	.0171	.0096	.0052	21
5	.0116	.0478	.1143	.2088	.3223	.4431	.5606	.4772	.3733	.2815	.2046	.1434	.0969	.0630	.0394	.0238	.0137	20
6	.0044	.0211	.0576	.1181	.2014	.3021	.4121	.5228	.5111	.4096	.3169	.2365	.1702	.1180	.0787	.0505	0311	19
7	.0016	.0089	.0274	.0626	.1175	.1922	.2830	.3843	.4889	.5421	.4432	.3502	.2671	.1965	.1392	.0948	.0620	18
8	.0006	.0036	.0123	.0311	.0642	.1143	.1818	.2646	.3585	.4579	.5712	.4748	.3819	.2967	.2223	.1604	.1112	17
9	.0002	.0014	.0052	.0146	.0329	.0637	.1093	.1707	.2467	.3343	.4288	5252	.5050	.4124	3255	2478	.1816	16
10	.0001	.0005	.0021	.0065	.0159	.0333	.0616	.1032	.1592	.2292	.3111	.4012	.4950	.5341	.4421	.3538	.2731	15
11		.0002	.0008	.0027	.0072	.0163	.0325	.0583	.0961	.1473	.2120	.2887	.3747	.4659	.5625	.4712	.3817	14
12		.0001	.0003	.0011	.0030	.0075	.0160	.0308	.0543	.0885	.1352	.1949	.2668	.3488	.4375	.5905	.5000	13
13			.0001	.0004	.0012	.0032	.0074	.0152	.0286	.0496	.0805	.1230	.1780	.2453	.3234	.4096	.5000	12
14				.0001	.0004	.0013	.0031	.0069	.0140	.0258	.0446	.0723	.1107	.1612	.2240	.2982	.3817	11
15					.0001	.0005	.0012	.0029	.0063	.0124	.0228	.0393	.0639	.0984	.1445	.2028	.2731	10
16						.0002	.0005	.0012	.0026	.0055	.0108	.0197	.0339	.0554	.0861	.1278	.1816	9
17						.0001	.0002	.0004	.0010	.0022	.0046	.0090	.0165	.0286	.0471	.0740	.1112	8
18								.0001	.0004	.0008	.0018	.0037	.0072	.0133	.0233	.0389	.0620	7
19									.0001	.0003	.0006	.0014	.0028	.0056	.0103	.0183	.0311	6
20										.0001	.0002	.0004	.0010	.0020	.0040	.0076	.0137	5
21											.0001	.0001	.0003	.0006	.0013	.0027	.0052	4
22													.0001	.0002	.0004	.0008	.0016	3
23															.0001	.0002	.0004	2
24																	.0001	1
25																		0
	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	p \ r

n=32, m=30

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
0	5238	.2704	.1374	.0687	.0338	.0163	.0077	.0036	.0016	.0007	.0003	.0001	.0001					30
1	.4762	.7296	.3435	.2084	.1211	.0678	0367	.0192	.0098	.0048	.0023	.0011	.0005	.0002	.0001			29
2	.2228	.4637	.6565	.3831	.2544	.1611	.0978	.0570	.0321	.0174	.0091	.0046	.0023	.0011	.0005			28
3	.1023	.2709	.4539	.6169	.4099	.2877	.1928	.1236	.0761	.0450	.0256	.0141	.0074	.0038	.0018	.0002	.0001	27
4	.0460	.1489	.2909	.4453	.5901	.4302	.3137	.2187	.1460	.0935	.0575	.0340	.0193	.0105	.0055	.0009	.0004	26
5	.0203	.0779	.1751	.3006	.4375	.5698	.4468	.3350	.2405	.1655	.1092	.0692	.0421	.0245	.0137	.0028	.0013	25
6	.0088	.0391	.0998	.1911	.3051	.4300	.5532	.4610	.3530	.2592	.1826	.1235	.0800	.0498	.0297	.0073	.0038	24
7	.0037	.0188	.0542	.1150	.2011	.3067	.4227	.5390	.4735	.3686	.2756	.1979	.1363	.0900	.0570	.0169	.0092	23
8	.0015	.0087	.0281	.0658	.1257	.2073	.3064	.4156	.5265	.4849	.3826	.2902	.2115	.1478	.0991	.0345	.0200	22
9	.0006	.0039	.0140	.0359	.0746	.1330	.2109	.3047	.4085	.5151	.4955	.3953	.3034	.2237	.1583	.0635	.0390	21
10	.0002	.0017	.0066	.0187	.0422	.0811	.1379	.2124	.3019	.4014	.5045	.5056	.4069	.3153	.2348	.1073	.0695	20
11	.0001	.0007	.0030	.0093	.0227	.0471	.0857	.1408	.2124	.2983	.3942	.4945	.5152	.4178	.3263	.1677	.1146	19
12		.0003	.0013	.0044	.0117	.0260	.0506	.0887	.1421	.2112	.2940	.3869	.4849	.5246	.4281	.2448	.1761	18
13		.0001	.0006	.0020	.0057	.0136	.0284	.0531	.0904	.1421	.2088	.2889	.3794	.4755	.5339	.3365	.2540	17
14			.0002	.0009	.0027	.0068	.0152	.0302	.0545	.0909	.1410	.2055	.2833	.3716	.4661	.4380	.3460	16
15			.0001	.0004	.0012	.0032	.0077	.0162	.0312	.0551	.0903	.1388	.2013	.2770	.3634	.5431	.4475	15
16				.0001	.0005	.0014	.0037	.0083	.0169	.0316	.0547	.0888	.1357	.1962	.2700	.4569	.5525	14
17					.0002	.0006	.0017	.0040	.0086	.0171	.0313	.0537	.0865	.1317	.1903	.3549	.4475	13
18					.0001	.0002	.0007	.0018	.0041	.0087	.0168	.0305	.0520	.0833	.1268	.2624	.3460	12
19						.0001	.0003	.0008	.0019	.0041	.0085	.0163	.0293	.0495	.0794	.1836	.2540	11
20							.0001	.0003	.0008	.0018	.0040	.0081	.0153	.0275	.0465	.1211	.1761	10
21								.0001	.0003	.0008	.0017	.0037	.0075	.0141	.0253	.0748	.1146	9
22									.0001	.0003	.0007	.0016	.0033	.0067	.0127	.0430	.0695	8
23										.0001	.0003	.0006	.0013	.0029	.0058	.0228	.0390	7
24											.0001	.0002	.0005	.0011	.0024	.0110	.0200	6
25												.0001	.0002	.0004	.0009	.0048	.0092	5
26														.0001	.0003	.0018	.0038	4
27															.0001	.0006	.0013	3
28																.0002	0004	2
29																	.0001	1
30																		0
	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	p \ r

n=32, m=32

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
0	.5077	.2539	.1249	.0604	.0287	.0134	.0061	.0028	.0012	.0005	.0002	.0001						32
1	.4923	.5117	.3183	.1873	.1054	.0571	.0298	.0151	.0074	.0035	.0016	.0007	.0003	.0001	.0001			31
2	.2385	.4883	.5149	.3511	.2261	.1387	.0814	.0459	.0249	.0130	.0066	.0032	.0015	.0007	0003	.0001		30
3	.1136	.2949	.4851	.5177	.3719	.2533	.1643	.1018	.0605	.0345	.0190	.0100	.0051	.0025	.0012	.0005	.0001	29
4	.0531	.1681	.3212	.4823	.5202	.3867	.2735	.1845	.1190	.0735	.0436	.0248	.0135	.0071	.0036	.0017	.0006	28
5	.0244	.0914	.2005	.3366	.4798	.5227	.3981	.2893	.2009	.1334	.0849	.0518	.0302	.0169	.0091	.0047	.0021	27
6	.0110	.0478	.1189	.2220	.3463	.4774	.5250	.4071	.3020	.2143	.1457	.0948	0591	.0353	.0201	.0110	0055	26
7	.0048	.0241	.0673	.1391	.2371	.3528	.4750	.5273	.4146	.3125	.2256	.1560	.1033	.0655	.0397	.0230	.0125	25
8	.0021	.0117	.0366	.0832	.1544	.2480	.3571	.4727	.5296	.4210	.3212	.2350	.1648	.1107	.0711	.0436	.0254	24
9	.0009	.0055	.0191	.0476	.0960	.1661	.2560	.3600	.4704	.5319	.4266	.3287	.2430	.1722	.1168	.0757	.0467	23
10	.0004	.0025	.0096	.0261	.0570	.1062	.1751	.2619	.3618	.4681	.5343	.4315	.3351	.2498	.1784	.1219	.0794	22
11	.0001	.0011	.0046	.0137	.0324	.0649	.1144	.1820	.2662	.3627	.4657	.5367	.4359	.3405	.2554	.1835	.1259	21
12	.0001	.0005	.0022	.0069	.0176	.0379	.0713	.1208	.1871	.2691	.3629	.4633	.5391	.4398	.3453	.2601	.1875	20
13		.0002	.0010	.0033	.0092	.0211	.0425	.0765	.1257	.1909	.2709	.3625	.4608	.4517	.4435	.3493	2639	19
14		.0001	.0004	.0015	.0046	.0113	.0242	.0463	.0806	.1293	.1934	.2718	.3616	.4583	5443	.4468	.3526	18
15			.0002	.0007	.0022	.0057	.0131	.0267	.0492	.0835	.1318	.1948	.2717	.3601	.4557	.5471	.4498	17
16			.0001	.0003	.0010	.0028	.0068	.0146	.0286	.0514	.0856	.1332	.1951	.2710	.3582	.4529	.5499	16
17				.0001	.0004	.0013	.0033	.0076	.0158	.0301	.0528	.0866	.1335	.1946	.2694	.3558	.4502	15
18					.0002	.0006	.0016	.0038	.0083	.0167	.0309	.0535	.0868	.1331	.1932	.2671	.3530	14
19					.0001	.0002	.0007	.0018	.0041	.0087	.0171	.0313	.0535	.0863	.1317	.1909	.2642	13
20						.0001	.0003	.0008	.0019	.0043	.0089	.0172	.0311	.0528	0849	.1293	.1879	12
21							.0001	.0003	.0008	.0020	0044	.0089	.0170	.0304	.0515	.0826	.1263	11
22								.0001	.0003	.0009	.0020	.0043	0086	.0164	.0293	.0495	.0797	10
23									.0001	.0004	.0009	.0019	.0041	.0082	.0155	.0276	.0470	9
24										.0001	.0003	.0008	.0018	.0038	.0076	.0142	.0256	8
25										.0001	.0001	.0003	.0007	.0016	.0034	.0067	.0128	7
26												.0001	.0002	.0006	.0014	.0028	.0058	6
27														.0002	.0005	.0011	.0023	5
28														.0001	.0002	.0003	.0008	4
29																.0001	.0003	3
30																	.0001	2
31																		1
32																		0
	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	p \ r

n=34, m=30

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
0	.5385	.2861	.1498	.0773	.0393	.0197	.0097	.0047	.0022	.0010	.0005	.0002	.0001						30
1	.4615	.7139	.3674	.2295	.1376	.0796	.0446	.0243	.0129	.0066	.0033	.0016	.0008	.0004	.0002	.0001			29
2	.2091	.4415	.6326	.4133	.2825	.1845	.1158	.0700	.0409	.0231	.0127	.0067	.0034	.0017	.0008	.0004	.0002	.0001	28
3	.0929	.2504	.4258	.5867	.4457	.3220	.2226	.1477	.0943	.0581	.0345	.0198	.0110	.0059	.0030	.0015	.0007	.0003	27
4	.0405	.1334	.2650	.4122	.5544	.4710	.3536	.2544	.1759	.1170	.0749	.0463	.0275	.0158	.0087	.0047	.0024	.0012	26
5	.0172	.0676	.1546	.2701	.3997	.5289	.4924	.3801	.2820	.2011	.1380	.0912	.0580	.0356	.0210	.0119	.0065	.0034	25
6	.0072	.0328	.0853	.1663	.2705	.3880	.5076	.5111	.4033	.3062	.2238	.1575	.1067	.0696	.0437	.0264	.0153	.0085	24
7	.0029	.0153	.0447	.0969	.1726	.2683	.3767	.4889	.5280	.4239	.3280	.2446	.1757	.1214	.0808	.0517	.0317	.0187	23
8	.0012	.0069	.0224	.0536	.1043	.1755	.2645	.3657	.4720	.5437	.4428	.3480	.2637	.1926	.1354	.0916	.0594	.0370	22
9	.0004	.0030	.0107	.0282	.0598	.1087	.1759	.2594	.3549	.4563	.5586	.4603	.3665	.2816	.2085	.1486	.1018	.0669	21
10	.0002	.0012	.0049	.0142	.0326	.0639	.1110	.1746	.2535	.3441	.4414	.5729	.4769	.3839	.2983	.2235	.1611	.1115	20
11	.0001	.0005	.0022	.0068	.0169	.0357	.0664	.1115	.1719	.2468	.3333	.4271	.5231	.4928	.4004	.3142	.2376	.1729	19
12		.0002	.0009	.0031	.0083	.0189	.0377	.0675	.1107	.1681	.2395	.3224	.4132	.5072	.5082	.4163	.3294	.2511	18
13		.0001	.0004	.0014	.0039	.0095	.0204	.0388	.0676	.1087	.1634	.2315	.3113	.3995	.4918	.5233	.4317	.3440	17
14			.0001	.0006	.0018	.0046	.0104	.0211	.0391	.0666	.1058	.1579	.2231	.3000	.3858	.4767	.5382	.4468	16
15				.0002	.0007	.0021	.0050	.0109	.0214	.0386	.0648	.1021	.1517	.2141	.2884	.3721	.4618	.5532	15
16				.0001	.0003	.0009	.0023	.0053	.0110	.0211	.0375	.0623	.0976	.1449	.2047	.2764	.3582	.4468	14
17					.0001	.0004	.0010	.0024	.0054	.0109	.0205	.0359	.0592	.0925	.1374	.1946	.2640	.3440	13
18						.0001	.0004	.0010	.0025	.0053	.0105	.0194	.0338	.0556	.0869	.1293	.1840	.2511	12
19							.0002	.0004	.0010	.0024	.0050	.0098	.0180	.0313	.0515	.0807	.1207	.1729	11
20							.0001	.0002	.0004	.0010	.0022	.0046	.0089	.0164	.0285	.0470	.0740	.1115	10
21								.0001	.0002	.0004	.0009	.0020	.0041	.0079	.0146	.0254	.0421	.0669	9
22									.0001	.0001	.0004	.0008	.0017	.0035	.0068	.0126	.0221	.0370	8
23											.0001	.0003	.0007	.0014	.0029	.0057	.0105	.0187	7
24												.0001	.0002	.0005	.0011	.0023	.0045	.0085	6
25													.0001	.0002	.0004	.0008	.0017	.0034	5
26															.0001	.0003	.0006	.0012	4
27																.0001	.0002	.0003	3
28																		.0001	2
29																			1
30																			0
	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	p \ r

n=34, m=34

r\p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
0	.5072	.2536	.1249	.0606	.0289	.0135	.0062	.0028	.0013	.0005	.0002	.0001							34
1	.4928	.5110	.3180	.1873	.1056	.0574	.0302	.0154	.0076	.0037	.0017	.0008	.0003	.0002	.0001				33
2	.2391	.4890	.5140	.3506	.2262	.1391	.0819	.0464	.0254	.0134	.0068	.0034	.0016	.0008	.0003	.0001	.0001		32
3	.1142	.2959	.4860	.5166	.3714	.2533	.1648	.1026	.0613	.0353	.0195	.0104	.0054	.0027	.0013	.0006	.0003	.0001	31
4	.0536	.1692	.3227	.4834	.5190	.3862	.2736	.1851	.1200	.0746	.0446	.0256	.0141	.0075	.0038	.0019	.0009	.0004	30
5	.0248	.0925	.2021	.3382	.4810	.5212	.3974	.2894	.2017	.1347	.0863	.0531	.0314	.0178	.0097	.0051	.0026	.0012	29
6	.0112	.0486	.1204	.2240	.3482	.4787	.5234	.4064	.3022	.2153	.1471	.0965	.0607	.0367	.0213	.0118	.0063	.0032	28
7	.0050	.0247	.0686	.1411	.2394	.3549	.4766	.5255	.4139	.3127	.2267	.1578	.1054	.0675	.0415	.0245	.0138	.0074	27
8	.0022	.0121	.0376	.0850	.1568	.2507	.3596	.4745	.5276	.4202	.3216	.2364	.1669	.1131	.0735	.0458	.0273	.0156	26
9	.0009	.0058	.0198	.0490	.0982	.1690	.2591	.3628	.4724	.5297	.4257	.3291	.2446	.1746	.1197	.0786	.0495	.0298	25
10	.0004	0027	.0101	.0271	.0588	.1089	.1784	.2654	.3649	4703	.5319	.4305	.3356	.2516	.1912	.1253	.0830	.0526	24
11	.0002	.0012	.0049	.0145	.0338	.0672	.1176	1858	.2701	.3662	.4682	.5340	.4348	.3412	.2576	.1868	.1299	.0865	23
12	.0001	.0005	.0023	.0074	.0186	.0397	.0742	.1245	.1915	.2735	.3668	.4660	.5362	.4387	.3460	.2626	.1914	1337	22
13		.0002	.0011	.0037	0099	.0225	.0448	.0799	.1300	.1958	.2758	.3668	.4638	.5385	4423	.3502	2669	.1952	21
14		.0001	.0005	.0017	.0050	.0122	.0259	.0490	.0844	.1342	.1988	.2772	.3662	.4615	.5408	.4455	.3539	.2704	20
15			.0002	.0008	.0023	.0063	.0143	.0288	0525	.0880	.1373	.2009	.2778	.3653	4592	.5433	4486	.3571	19
16			.0001	.0004	.0011	.0031	.0076	.0161	.0312	.0552	.0906	.1393	.2020	.2776	.3539	.4567	.5459	.4515	18
17				.0002	.0005	.0015	.0038	.0086	.0177	.0330	.0571	.0923	.1405	.2022	.2768	.3620	.4542	.5485	17
18				.0001	.0002	.0007	.0018	.0044	.0095	.0188	.0343	.0584	.0933	.1407	.2016	.2753	3598	.4515	16
19					.0001	.0003	.0008	.0021	.0049	.0102	0196	0351	.0590	.0934	.1402	.2002	.2732	.3571	15
20						.0001	.0004	.0010	.0024	.0053	.0107	.0200	.0354	.0589	.0928	.1388	.1981	.2704	14
21							.0001	.0004	.0011	.0026	0055	.0108	.0201	.0352	.0582	.0914	.1367	.1952	13
22							.0001	.0002	.0005	.0012	.0027	.0055	.0108	.0199	.0345	.0569	.0893	.1337	12
23								.0001	.0002	.0005	.0012	.0026	0054	.0105	.0193	.0334	.0551	.0865	11
24									.0001	.0002	.0005	.0012	.0026	.0052	.0100	.0183	.0318	.0526	10
25										.0001	.0002	.0005	.0011	.0024	.0049	.0093	.0171	.0298	9
26											.0001	.0002	.0004	.0010	.0022	.0044	.0085	.0156	8
27												.0001	.0002	.0004	.0009	.0019	.0038	.0074	7
28													.0001	.0001	.0003	.0007	.0016	.0032	6
29															.0001	.0002	.0006	.0012	5
30																.0001	.0002	.0004	4
31																	.0001	.0001	3
32																			2
33																			1
34																			0
	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	p\r

n=35, m=5

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
0	.8780	.7683	.6699	5817	.5031	.4332	.3713	3167	.2687	.2267	.1901	.1584	.1311	.1077	.0878	.0709	.0567	.0449	5
1	.1219	.2312	.3301	.4183	.4968	.5668	.7535	.7006	.6466	.5924	.5387	.4863	.4355	.3871	.3410	.2978	.2576	.2206	4
2	.0121	.0347	.0657	.1038	.1475	.1954	.2465	.2993	.3534	.4075	.4611	.5136	.7513	.7093	.6651	.6192	.5720	.5241	3
3	.0009	.0036	.0085	.0165	.0277	.0425	.0611	.0833	.1096	.1393	.1726	.2092	.2486	.2907	.3348	.3808	.4179	.4759	2
4		.0002	.0006	.0015	.0031	.0055	.0090	.0137	.0202	.0283	.0387	.0513	.0665	.0844	.1053	.1293	.1564	.1868	1
5					.0001	.0003	.0006	.0010	.0017	.0026	.0040	.0058	.0082	.0114	.0155	.0207	.0271	.0351	0
	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	p \ r

n=35, m=10

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
0	.7825	.6085	.4703	.3609	.2750	2079	.1559	1160	.0854	0623	0450	.0322	.0227	.0158	0109	.0074	.0049	0032	10
1	.2172	.3910	.5294	.6390	.3350	.5198	.4358	.3601	.2932	.2355	.1865	.1457	.1121	.0850	.0635	.0467	.0337	.0239	9
2	.0433	.1144	.2013	.2952	.3894	.4800	.5639	.6273	.5530	.4804	.4113	3469	.2882	.2357	.1898	.1504	.1170	0894	8
3	.0078	.0476	.0607	.1066	.1631	.2281	.2988	.3725	.4469	.5194	.6474	.5816	.5151	.4501	.3873	.3281	.2734	.2238	7
4	.0012	0056	.0150	.0311	0548	0867	.1268	.1746	.2292	.2889	.3523	.4182	.4845	.6700	.6094	.5470	.4839	.4214	6
5	.0001	.0009	0030	.0074	.0149	.0265	.0432	.0658	.0947	.1297	.1715	.2195	.2724	.3298	3902	.4530	.6961	.6388	5
6		.0001	.0004	.0014	.0033	.0065	.0117	.0197	.0311	.0463	.0665	.0922	.1232	.1601	.2026	.2509	.3038	.3609	4
7				.0002	.0006	.0013	.0024	.0046	.0079	.0127	.0199	.0301	.0433	.0606	.0824	.1094	.1418	.1798	3
8					.0001	.0002	.0003	.0008	.0015	.0025	.0043	.0071	.0112	.0169	.0247	.0353	.0492	.0669	2
9								.0001	.0002	.0003	.0006	.0011	.0019	.0031	.0049	.0075	.0113	.0165	1
10												.0001	.0002	.0003	.0005	.0008	.0013	.0020	0
	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	p \ r

n=35, m=15

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
0	.7060	.4941	.3429	.2357	.1605	.1081	.0721	.0475	.0309	.0199	.0126	.0079	.0048	0029	.0017	.0010	.0006	.0003	15
1	.2940	.5057	.6571	.5366	.4221	.3244	.2442	.1801	.1304	.0927	.0646	.0443	.0297	.0195	.0126	.0079	.0049	.0027	14
2	.0822	.2032	.3356	.4633	.5777	.5654	.4683	.3791	.3003	.2328	.1767	.1314	.0957	.0681	.0475	.0323	.0215	.0137	13
3	.0217	.0709	.1440	.2343	.3335	.4346	.5315	.5894	.5027	.4196	.3429	.2743	.2148	.1644	1232	.0901	.0644	.0446	12
4	.0053	.0221	.0538	.1020	.1651	.2403	.3235	.4104	.4972	.6113	.5315	.4529	.3781	.3089	2470	.1930	.1474	.1095	11
5	.0012	.0062	.0177	.0389	.0711	1154	.1712	.2369	3104	.3885	.4685	.6326	.5577	.4823	.4088	.3392	.2753	.2179	10
6	.0002	.0015	.0051	0131	.0268	.0484	.0791	.1194	.1698	.2288	.2955	.3673	.4422	.5176	.5828	.5097	.4369	.3663	9
7		.0003	0012	.0039	.0088	.0177	.0319	.0525	.0811	.1180	.1637	.2176	.2789	.3460	.4168	.4903	.6076	.5359	8
8			.0002	.0010	.0025	.0056	.0111	.0200	.0336	.0529	.0790	.1126	.1543	.2037	.2603	.3240	.3924	.4638	7
9				.0002	.0006	.0015	.0033	.0065	.0119	.0204	.0328	.0503	.0739	.1041	.1416	.1874	.2406	.3007	6
10					.0001	.0003	.0008	.0017	.0035	.0066	.0115	.0190	.0301	.0453	.0658	.0930	.1271	.1688	5
11							.0001	.0003	.0008	.0017	.0033	.0059	.0102	.0164	.0253	.0385	.0563	.0798	4
12									.0001	.0003	.0007	.0014	.0028	.0047	.0080	.0128	.0201	.0305	3
13											.0001	.0002	0006	.0010	.0019	.0032	.0054	.0089	2
14													.0001	.0001	.0003	.0005	.0010	.0018	1
15																	0001	.0002	0
	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	p \ r

n=35, m=20

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
0	.6430	.4091	.2576	.1604	.0987	.0600	.0360	.0213	.0124	.0071	.0040	.0022	.0012	.0006	.0003	.0002	.0001		20
1	.3568	.5906	.5492	.4071	.2922	.2040	.1388	.0923	.0600	.0381	.0237	.0144	.0086	.0049	.0028	.0016	.0008	.0004	19
2	.1230	.2876	.4505	.5927	.5128	.3995	.3016	.2215	.1583	.1102	.0748	.0495	.0320	.0201	.0123	.0074	.0042	.0023	18
3	.0408	.1247	.2374	.3629	.4870	.6005	.4887	.3900	.3025	.2282	.1675	.1197	.0834	.0564	.0372	.0239	.0150	.0089	17
4	.0129	.0495	.1121	.1974	.2979	.4050	.5111	.5650	.4696	.3797	.2989	.2289	.1707	.1238	.0873	.0599	.0400	.0257	16
5	.0038	.0182	.0482	.0969	.1640	.2460	.3382	.4348	.5302	.5414	.4527	.3687	.2926	.2260	.1697	.1240	.0881	.0604	15
6	.0010	.0062	.0190	.0433	.0819	.1354	.2030	.2820	.3685	.4581	.5473	.5210	.4369	.3571	.2842	.2201	.1658	.1213	14
7	.0002	.0019	.0068	.0177	.0373	.0679	.1108	.1666	.2338	.3103	.3935	.4788	.5851	.5028	.4216	.3445	.2742	.2122	13
8		.0005	.0022	.0066	.0155	.0310	.0551	.0896	.1353	.1920	.2594	.3345	.4148	.4970	.5660	.4854	.4063	.3313	12
9		.0001	.0006	.0022	.0059	.0129	.0249	.0438	.0713	.1082	.1562	.2141	.2810	.3550	.4340	.5144	.5484	.4689	11
10			.0001	.0006	.0020	.0049	.0102	.0194	.0341	.0553	.0856	.1249	.1739	.2325	.2998	.3735	.4515	.6098	10
11				.0001	.0006	.0017	.0038	.0077	.0147	.0254	.0424	.0660	.0977	.1386	.1890	.2485	.3160	.3902	9
12					.0001	.0005	.0013	.0027	.0057	.0103	.0189	.0314	.0495	.0745	.1078	.1500	.2014	.2621	8
13						.0001	.0004	.0008	.0019	.0035	.0075	.0133	.0224	.0358	.0550	.0812	.1155	.1588	7
14							.0001	.0002	.0005	.0013	.0026	.0050	.0089	.0151	.0248	.0389	.0587	.0856	6
15									.0001	.0004	.0008	.0016	.0031	.0055	.0097	.0162	.0259	.0402	5
16										.0001	.0002	.0004	.0009	.0017	.0032	.0056	.0097	.0160	4
17												.0001	.0002	.0004	.0009	.0016	.0030	.0052	3
18														.0001	.0002	.0003	.0007	.0013	2
19																	.0001	.0002	1
20																			0
	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	p \ r

n=35, m=25

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
0	.5902	.3442	.1984	.1129	.0634	.0350	.0191	.0103	.0054	.0028	.0014	.0007	.0003	0002	.0001				25
1	.4097	.6555	.4549	.3109	.2048	.1306	.0811	.0491	0289	0166	.0093	.0051	.0027	0014	0007	0003	.0001		24
2	.1638	.3639	5450	.5231	.3900	.2794	.1934	.1296	.0841	0531	0325	.0194	.0112	0063	0034	0018	.0009	0004	23
3	.0638	.1828	.3289	.4768	.6097	.4516	.3425	.2507	.1773	.1216	.0807	.0520	.0325	0197	0115	0066	0036	.0019	22
4	.0241	.0854	.1810	2993	.4257	.5484	.5032	.3972	.3029	2236	1597	.1105	.0741	0481	.0302	0184	0108	.0061	21
5	.0088	.0376	.0923	.1728	.2729	.3845	.4966	.5479	.4457	3512	.2679	.1979	.1417	0981	.0658	.0427	.0267	.0161	20
6	.0031	.0157	.0440	.0926	.1618	.2495	.3481	.4516	.5542	.4899	.3962	.3105	.2360	1736	.1236	0852	.0567	.0364	19
7	.0010	.0062	.0197	.0463	.0894	.1505	.2268	.3156	.4124	.5098	.5307	4384	.3518	.2735	.2060	1503	.1059	0721	18
8	.0003	.0023	.0083	.0217	.0461	.0847	.1377	2056	.2869	.3759	.4691	.5686	4789	.3915	3106	2389	.1778	.1279	17
9	.0001	.0008	.0033	.0095	.0222	.0446	.0780	.1253	1864	.2595	.3424	.4310	5210	.5173	4302	.3475	.2722	2062	16
10		.0003	.0012	.0039	.0100	.0215	.0412	.0711	.1131	.1675	.2342	.3110	3950	4824	.5543	.4682	3843	3057	15
11		.0001	.0004	.0015	.0042	.0098	.0203	.0376	.0640	.1009	.1497	.2102	.2812	3606	.4451	.5905	5056	4208	14
12			.0001	.0005	.0016	.0041	.0093	.0185	.0337	.0566	.0892	1327	1874	2529	3276	.4092	.4943	5425	13
13				.0001	0005	.0016	.0039	.0084	.0165	.0295	.0494	.0780	1164	.1656	2257	.2959	.3742	4574	12
14					.0001	.0005	.0015	.0035	.0075	.0142	.0253	.0425	.0671	.1008	.1448	.1998	.2653	.3396	11
15						.0001	.0005	.0013	.0031	.0063	.0119	0214	.0357	.0567	.0860	1252	.1750	2353	10
16							.0001	.0004	.0012	.0025	.0051	.0099	.0174	.0292	.0469	.0722	.1066	.1509	9
17								.0001	.0004	.0009	.0020	.0042	.0077	.0137	.0233	.0380	.0594	.0888	8
18									.0001	.0003	.0007	.0016	.0031	.0058	.0104	.0181	.0300	.0474	7
19										.0001	.0002	.0006	.0011	.0022	.0041	.0076	.0135	.0226	6
20												.0002	.0004	.0007	.0014	.0028	.0053	.0095	5
21													.0001	.0002	.0004	.0009	.0018	.0034	4
22															.0001	.0002	.0005	.0010	3
23																	.0001	.0002	2
24																			1
25																			0
	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	p \ r

n = 35, m = 30

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
0	.5455	.2937	.1560	.0817	.0422	.0214	.0107	.0054	.0025	.0012	.0005	.0002	.0001						30
1	4544	.7062	.3789	.2399	1460	.0857	.0488	0272	0145	0076	0038	0019	.0009	0004	.0002				29
2	.2026	.4308	.6211	.4280	.2965	.1962	.1251	0771	0457	.0263	0146	.0079	0041	.0021	.0010	.0004	.0002	0001	28
3	.0885	.2407	.4125	.5721	.4631	.3387	.2376	.1603	.1039	.0651	.0393	.0230	.0130	.0071	.0037	.0018	.0009	.0004	27
4	.0378	.1262	.2529	.3965	.5369	.4905	.3932	.2726	.1913	.1294	.0843	.0531	.0322	.0189	.0107	.0057	.0030	.0015	26
5	.0158	.0629	.1452	.2559	.3818	.5094	.5142	.4024	.3028	.2194	1532	.1032	.0669	0419	.0253	.0146	.0082	.0044	25
6	.0064	.0300	.0787	.1551	.2544	.3683	.4857	.5351	.4278	.3297	.2450	.1755	.1212	.0807	.0518	.0319	.0190	.0109	24
7	.0025	.0137	.0405	.0888	.1597	.2508	.3551	.4649	.5539	.4507	.3542	.2685	.1964	.1386	.0942	.0616	.0388	.0236	23
8	.0009	.0060	.0199	.0482	.0947	.1613	.2453	.3424	.4460	.5493	4719	.3766	2904	.2162	.1552	1073	.0714	.0458	22
9	.0003	.0024	.0093	.0249	.0532	.0982	.1603	.2388	.3300	.4286	.5280	.4916	.3977	.3111	.2350	.1711	.1200	.0811	21
10	.0001	.0009	.0041	.0122	.0283	.0566	.0992	.1578	.2316	.3179	.4117	.5082	.5104	.4177	.3307	.2528	.1864	.1325	20
11		.0003	.0017	.0057	.0143	.0309	.0582	.0988	.1541	.2240	.3055	.3956	.4896	.5285	.4368	.3494	.2700	.2013	19
12		.0001	.0007	.0025	.0068	.0160	.0323	.0586	.0972	.1497	.2154	.2932	.3800	.4715	.5460	.4553	.3675	.2867	18
13			.0003	.0010	.0030	.0078	.0169	.0329	.0580	.0949	.1441	.2065	.2809	.3646	.4539	.5633	.4733	.3852	17
14			.0001	.0004	.0012	.0036	.0083	.0174	.0327	.0569	.0913	.1379	.1972	.2684	.3491	.4367	.5804	.4912	16
15				.0001	.0004	.0015	.0038	.0087	.0174	.0323	.0547	.0871	.1312	.1875	.2555	.3339	.4195	.5976	15
16					.0001	.0005	.0016	.0041	.0087	.0173	.0309	.0519	.0824	.1239	.1772	.2425	.3183	.4023	14
17						.0001	.0006	.0018	.0041	.0087	.0164	.0291	.0487	.0772	.1161	.1667	.2291	.3025	13
18							.0002	.0007	.0018	.0041	.0081	.0153	0270	.0452	.0715	.1079	.1556	.2152	12
19								.0002	.0007	.0018	.0037	.0075	.0140	.0247	.0412	.0655	.0992	.1441	11
20									.0002	.0007	.0015	.0034	.0067	.0125	.0221	.0370	.0590	.0902	10
21										.0002	.0005	.0014	.0029	.0058	.0109	.0193	.0325	.0524	9
22											.0001	.0005	.0011	.0024	.0049	.0092	.0164	.0279	8
23												.0001	.0004	.0009	.0020	.0040	.0075	.0135	7
24													.0001	.0003	.0007	.0015	.0030	.0058	6
25														.0001	.0002	.0005	.0010	.0021	5
26																.0001	.0002	.0006	4
27																		.0001	3
28																			2
29																			1
30																			0
	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	p \ r

n=35, m=35

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
0	.5071	.2535	.1249	.0606	.0289	.0136	.0063	.0028	.0013	.0005	.0002	.0001							35
1	.4927	.5106	.3177	.1873	.1056	.0575	.0303	.0154	.0077	.0036	.0017	.0008	.0003	.0001					34
2	.2392	.4890	.5135	.3504	.2261	.1392	.0822	.0466	.0256	.0134	.0069	.0034	.0016	.0007	.0003	.0001			33
3	.1143	.2962	.4862	.5160	.3710	.2533	.1650	.1028	.0617	.0354	.0197	.0105	.0054	.0027	.0013	.0005	.0002	.0001	32
4	.0537	.1695	.3231	.4838	.5182	.3858	.2736	.1853	.1204	.0749	.0449	.0258	.0143	.0077	.0039	.0019	.0008	.0004	31
5	.0248	.0927	.2026	.3389	.4815	.5206	.3971	.2894	.2020	.1351	.0868	.0535	.0317	.0182	.0099	.0052	.0025	.0013	20
6	.0112	.0488	.1209	.2248	.3490	.4793	.5227	.4060	.3022	.2156	.1477	.0971	.0613	.0373	.0217	.0121	.0064	.0034	29
7	.0049	.0248	.0691	.1420	.2404	.3558	.4771	.5246	.4134	.3126	.2272	.1584	.1061	.0684	.0423	.0250	.0141	.0078	28
8	.0021	.0122	.0379	.0857	.1579	.2517	.3605	.4751	.5266	.4196	.3216	.2368	.1676	.1141	.0745	.0466	.0279	.0162	27
9	.0008	.0058	.0200	.0496	.0992	.1701	.2602	.3639	.4726	.5286	.4251	.3291	.2451	.1757	.1209	.0797	.0504	.0307	26
10	.0003	.0026	.0102	.0276	.0597	.1100	.1797	.2668	.3656	.4711	.5307	.4299	.3356	.2524	.1824	.1265	.0842	.0539	25
11	.0001	.0011	.0050	.0148	.0345	.0681	.1188	.1873	.2716	.3676	.4692	.5327	.4341	.3414	.2584	.1880	.1312	.0882	24
12		.0004	.0023	.0076	.0191	.0404	.0752	.1260	.1932	.2753	.3684	.4671	.5347	.4381	.3462	.2635	.1926	.1356	23
13		.0001	.0010	.0038	.0102	.0230	.0456	.0812	.1317	.1978	.2779	.3686	.4647	.5370	.4416	.3504	.2676	.1970	22
14			.0004	.0018	.0052	.0125	.0265	.0501	.0860	.1362	.2012	.2796	.3680	.4625	.5392	.4447	.3539	.2717	21
15			.0001	.0008	.0025	.0065	.0147	.0296	.0538	.0898	.1397	.2036	.2802	.3671	.4604	.5413	.4475	.3575	20
16				.0003	.0011	.0032	.0078	.0167	.0322	.0566	.0929	.1421	.2047	.2802	.3661	.4582	.5436	.4507	19
17				.0001	.0004	.0015	.0039	.0090	.0184	.0341	.0591	.0950	.1433	.2052	.2798	.3646	.4558	.5464	18
18					.0001	.0007	.0018	.0046	.0100	.0196	.0359	.0606	.0959	.1438	.2051	.2788	.3626	.4531	17
19						.0003	.0008	.0022	.0052	.0107	.0208	.0369	.0612	.0963	.1438	.2043	.2770	.3601	16
20						.0001	.0003	.0010	.0025	.0055	.0115	.0214	.0372	.0614	.0962	.1430	.2025	.2745	15
21							.0001	.0004	.0011	.0026	.0061	.0118	.0214	.0372	.0612	.0953	.1412	.2000	14
22								.0001	.0004	.0011	.0031	.0062	.0116	.0213	.0369	.0603	.0936	.1387	13
23									.0001	.0004	.0015	.0031	.0059	.0115	.0209	.0361	.0587	.0912	12
24										.0001	.0007	.0015	.0028	.0058	.0112	.0203	.0347	.0565	11
25											.0003	.0007	.0012	.0027	.0056	.0107	.0192	.0328	10
26											.0001	.0003	.0004	.0011	.0026	.0052	.0099	.0177	9
27												.0001	.0001	.0004	.0011	.0023	.0047	.0088	8
28														.0001	.0004	.0009	.0020	.0040	7
29															.0001	.0003	.0008	.0016	6
30																.0001	.0003	.0005	5
31																	.0001	.0001	4
32																			3
33																			2
34																			1
35																			0
	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	p \ r

n=40, m=5

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
0	.8914	.7923	.7021	.6205	.5466	.4800	.4200	.3661	.3179	.2750	.2368	.2030	.1731	.1469	.1239	.1040	.0866	.0717	.0585	.0480	.0387	5
1	.1086	.2077	.2978	.3794	.4532	.5199	.5798	.7515	.7045	.6569	.6090	.5612	.5142	.4682	.4238	.3812	.3405	.3022	.2658	.2326	.2015	4
2	.0096	.0276	.0528	.0839	.1199	.1599	.2029	.2484	.2951	.3430	.3910	.4388	.4858	.5316	.7436	.7062	.6670	.6265	.5846	.5427	.5000	3
3	.0006	.0025	.0061	.0118	.0199	.0307	.0442	.0609	.0803	.1029	.1283	.1565	.1874	.2206	.2563	.2938	.3329	.3735	.4150	.4573	.5000	2
4		.0001	.0004	.0010	.0020	.0035	.0056	.0088	.0128	.0182	.0248	.0330	.0430	.0548	.0688	.0848	.1032	.1240	.1472	.1731	.2015	1
5					.0001	.0002	.0003	.0006	.0009	.0015	.0022	.0031	.0045	.0062	.0085	.0113	.0148	.0192	.0245	.0310	.0387	0
	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	p \ r

n=40, m=10

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
0	.8039	.6431	.5119	.4052	.3190	.2496	.1941	.1500	.1151	.0877	.0663	.0497	.0370	.0272	.0199	.0143	.0102	.0072	.0050	.0034	.0023	10
1	.1960	.3567	.4880	.5947	.6657	.5824	.5030	.4291	.3618	.3017	.2487	.2028	.1635	.1303	.1028	0800	.0615	.0467	.0350	.0258	.0187	9
2	.0352	.0942	.1681	.2498	.3341	.4174	.4967	.5707	.6326	.5665	.5013	.4385	.3790	.3236	.2733	.2277	.1874	.1522	.1220	.0963	.0749	8
3	.0057	.0204	.0456	.0811	.1261	.1791	.2381	.3015	.3672	.4334	.4986	.6764	.6184	.5593	.5006	.4426	.3868	.3338	.2845	.2400	.1979	7
4	.0008	.0037	.0101	.0211	.0378	.0609	.0903	.1264	.1686	.2161	.2681	.3235	.3813	.4403	.4993	.6659	.6119	.5563	.5002	.4451	.3894	6
5	.0001	.0005	.0018	.0044	.0091	.0166	.0272	.0422	.0617	.0860	.1155	.1501	.1898	.2341	.2823	.3338	.3880	.4436	.4997	.6640	.6104	5
6			.0002	.0007	.0017	.0036	.0064	.0111	.0178	.0269	.0392	.0550	.0749	.0991	.1277	.1609	.1988	.2410	.2871	.3368	.3894	4
7				.0001	.0002	.0006	.0011	.0022	.0040	.0064	.0102	.0154	.0227	.0323	.0446	.0600	.0793	.1024	.1296	.1615	.1979	3
8						.0001	.0001	.0003	.0007	.0011	.0019	.0031	.0050	.0077	.0113	.0163	.0232	.0320	.0431	.0573	.0749	2
9									.0001	.0001	.0002	.0004	.0007	.0012	.0018	.0028	.0045	.0066	.0094	.0134	.0187	1
10														.0001	.0001	.0002	.0004	.0007	.0010	.0015	.0023	0
	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	p \ r

n=40, m=15

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
0	.7321	.5324	.3845	.2757	.1962	.1384	.0969	.0672	.0462	.0315	.0212	.0141	.0093	.0061	.0039	.0025	.0015	.0010	.0006	.0003	.0002	15
1	.2678	.4673	.6153	.5938	.4846	.3876	.3046	.2353	.1790	.1342	.0990	.0719	.0516	.0364	.0253	.0173	.0116	.0077	.0050	.0031	.0020	14
2	.0681	.1716	.2889	.4060	.5152	.6369	.5471	.4607	.3811	.3099	.2475	.1943	.1503	.1141	.0852	.0626	.0451	.0320	.0222	.0151	.0101	13
3	.0163	.0544	.1130	.1877	.2728	.3629	.4527	.5390	.5851	.5175	.4421	.3712	.3067	.2488	.1985	.1556	.1197	.0905	.0671	.0487	.0347	12
4	.0036	.0153	.0383	.0742	.1228	.1829	.2517	.3267	.4046	.4824	.5578	.5653	.4944	.4250	.3595	.2989	.2441	.1958	.1542	.1190	.0900	11
5	.0007	.0038	.0114	.0256	.0478	.0795	.1206	.1711	.2294	.2941	.3632	.4345	.5055	.6086	.5413	.4740	.4083	.3458	.2876	.2350	.1882	10
6	.0001	.0008	.0030	.0078	.0162	.0300	.0501	.0777	.0129	.1560	.2066	.2636	.3255	.3912	.4586	.5257	.5853	.5200	.4546	.3909	.3301	9
7		.0001	.0007	.0021	.0048	.0098	.0181	.0306	.0482	.0718	.1022	.1395	.1834	.2341	.2902	.3506	.4144	.4798	.6277	.5646	.5000	8
8			.0001	.0005	.0012	.0027	.0056	.0104	.0178	.0285	.0437	.0639	.0896	.1217	.1603	.2050	.2558	.3118	.3721	.4353	.5000	7
9				.0001	.0002	.0006	.0015	.0030	.0056	.0096	.0160	.0251	.0375	.0544	.0763	.1035	.1368	.1764	.2221	.2736	.3301	6
10						.0001	.0003	.0007	.0015	.0027	.0049	.0083	.0132	.0205	.0308	0443	.0622	.0851	.1135	.1478	.1882	5
11								.0001	.0003	.0006	.0012	.0023	.0038	.0063	.0103	.0157	.0234	.0341	.0483	.0667	.0900	4
12										.0001	.0002	.0005	.0008	.0015	.0028	.0044	.0070	.0109	.0165	.0242	.0347	3
13												.0001	.0001	.0002	.0006	.0009	.0015	.0026	.0043	.0066	.0101	2
14															.0001	.0001	.0002	.0004	.0008	.0012	.0020	1
15																			.0001	.0001	.0002	0
	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	p \ r

n=40, m=20

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
0	.6722	.4480	.2961	.1940	.1259	.0809	.0515	.0324	.0202	.0124	.0075	.0045	.0027	.0015	.0009	.0005	.0003	.0001	.0001			20
1	.3276	.5515	.6024	.4663	.3508	.2575	.1851	.1303	.0902	.0611	.0407	.0267	.0172	.0108	.0067	.0040	.0025	.0014	.0008	.0004	.0002	19
2	.1036	.2478	.3972	.5333	.5839	.4750	.3767	.2913	.2204	.1630	.1181	.0838	.0583	.0397	.0265	.0173	.0112	.0069	.0042	.0025	.0014	18
3	.0315	.0986	.1929	.3023	.4159	.5244	.5756	.4807	.3923	.3128	.2438	.1859	.1388	.1013	.0724	.0506	.0347	.0231	.0151	.0096	.0059	17
4	.0091	.0358	.0835	.1511	.2346	.3274	.4240	.5189	.5712	.4851	.4029	.3274	.2604	.2025	.1541	.1146	.0835	.0593	.0412	.0279	.0183	16
5	.0025	.0120	.0328	.0678	.1183	.1825	.2583	.3418	.4285	.5147	.5690	.4885	.4108	.3380	.2724	.2146	.1655	.1246	.0917	.0658	.0460	15
6	.0006	.0037	.0118	.0276	.0539	.0916	.1416	.2030	.2734	.3504	.4309	.5112	.5681	.4913	.4166	.3458	.2812	.2234	.1736	.1317	.0974	14
7	.0001	.0010	.0039	.0102	.0223	.0417	.0702	.1091	.1579	.2165	.2833	.3557	.4318	.5084	.5680	.4939	.4212	.3517	.2874	.2296	.1790	13
8		.0002	.0012	.0034	.0084	.0172	.0315	.0531	.0826	.1213	.1692	.2255	.2894	.3588	.4316	.5058	.5688	.4964	.4248	.3559	.2915	12
9			.0003	.0010	.0029	.0064	.0128	.0234	.0391	.0615	.0916	.1298	.1765	.2312	.2928	.3602	.4310	.5034	.5702	.4988	.4275	11
10				.0002	.0009	.0021	.0047	.0093	.0167	.0282	.0448	.0675	.0975	.1353	.1808	.2342	.2943	.3601	.4297	.5010	.5722	10
11					.0002	.0006	.0015	.0033	.0064	.0116	.0197	.0316	.0485	.0714	.1009	.1380	.1826	.2349	.2939	.3585	.4275	9
12						.0001	.0004	.0010	.0022	.0043	.0077	.0132	.0216	.0337	.0504	.0730	.1020	.1383	.1820	.2332	.2915	8
13							.0001	.0002	.0006	.0014	.0027	.0048	.0085	.0141	.0223	.0343	.0507	.0727	.1009	.1361	.1790	7
14									.0001	.0004	.0008	.0015	.0029	.0051	.0086	.0141	.0221	.0336	.0493	.0702	.0974	6
15										.0001	.0002	.0004	.0008	.0016	.0028	.0050	.0083	.0134	.0208	.0314	.0460	5
15												.0001	.0002	.0004	.0007	.0015	.0026	.0045	.0074	.0118	.0183	4
17														.0001	.0001	.0004	.0006	.0012	.0021	.0036	.0059	3
18																.0001	.0001	.0002	.0005	.0008	.0014	2
19																			.0001	.0001	.0002	1
20																						0
	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	p \ r

n=40, m=25

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
0	.6212	.3822	.2330	.1405	.0838	.0495	.0288	.0166	.0094	.0053	.0029	.0016	.0008	.0004	.0002	.0001						25
1	.3786	.6174	.5103	.3671	.2556	1732	.1144	.0739	.0467	.0290	.0176	.0105	.0061	.0034	.0019	.0010	.0005	.0003	.0001			24
2	.1397	.3189	.4897	.6327	.4618	.3494	.2562	.1826	.1268	.0859	.0568	.0367	.0232	.0142	.0087	.0050	.0028	.0016	.0008	.0004	.0002	23
3	.0501	.1482	.2749	.4097	.5378	.5357	.4277	.3314	.2496	.1829	.1306	.0908	.0617	.0407	.0264	.0165	.0101	.0060	.0034	.0019	.0011	22
4	.0174	.0638	.1399	.2388	.3502	.4641	.5719	.4951	.3996	.3138	.2398	.1784	.1294	.0913	.0630	.0421	.0275	.0174	.0107	.0064	.0038	21
5	.0058	.0258	.0657	.1273	.2079	.3024	.4036	.5047	.5542	.4618	.3748	.2962	.2281	.1710	.1251	.0889	.0616	.0415	.0272	.0173	.0108	20
6	.0018	.0098	.0287	.0627	.1136	.1811	.2621	.3519	.4456	.5380	.5188	.4324	.3515	.2885	.2151	.1618	.1185	.0845	.0586	.0394	.0259	19
7	.0005	.0035	.0117	.0287	.0574	.1002	.1573	.2270	.3669	.3929	.4811	.5710	.4869	.4153	.3292	.2607	.2011	.1512	.1105	.0785	.0543	18
8	.0001	.0011	.0045	.0122	.0269	.0514	.0875	.1357	.1961	.2669	.3456	.4289	.5129	.5485	.4576	.4798	.3074	.2427	.1865	.1394	.1014	17
9		.0003	.0016	.0048	.0117	.0245	.0452	.0753	.1164	.1686	.2312	.3029	.3804	.4613	.5873	.5083	.4298	.3551	.3859	.2242	.1711	16
10			.0005	.0017	.0047	.0108	.0217	.0388	.0642	.0989	.1439	.1994	.2636	.3356	.4125	.4914	.5571	.4796	.4031	.3306	.2641	15
11			.0001	.0005	.0017	.0044	.0097	.0186	.0329	.0539	.0832	.1221	.1702	.2279	.2939	.3660	.4424	.6046	.5283	.4514	.3765	14
12				.0001	.0005	.0016	.0040	.0082	.0156	.0272	.0446	.0694	.1021	.1441	.1953	.2549	.3222	.3954	.4714	.5763	.5000	13
13					.0001	.0005	.0015	.0033	0068	.0127	.0221	.0365	.0567	.0845	.1205	.1652	.2189	.2810	.3497	.4236	.5000	12
14						.0001	.0005	.0012	.0027	.0054	.0101	.0177	.0290	.0457	.0687	.0991	.1380	.1857	.2419	.3061	3765	11
15							.0001	.0004	.0010	.0021	.0042	.0079	.0136	.0227	.0360	.0547	.0802	.1134	.1549	.2054	.2641	10
16								.0001	.0003	.0007	.0016	.0032	.0058	.0103	.0172	.0276	.0426	.0635	.0911	.1269	.1711	9
17									.0001	.0002	.0005	.0012	.0022	.0042	.0074	.0126	.0205	.0323	.0488	.0716	.1014	8
18											.0001	.0004	.0007	.0015	.0028	.0051	.0088	.0148	.0235	.0364	.0543	7
19												.0001	.0002	.0005	.0009	.0018	.0033	.0060	.0100	.0165	.0259	6
20														.0001	.0002	.0005	.0010	.0021	.0037	.0065	.0108	5
21																.0001	.0002	.0006	.0011	.0022	.0038	4
22																		.0001	.0002	.0006	.0011	3
23																				.0001	.0002	2
24																						1
25																						0
	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	

n=40, m=30

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
0	.5774	.3299	.1865	.1042	.0575	.0312	.0169	.0090	.0047	.0024	.0012	.0006	.0003	.0001								30
1	.4226	.6698	.4333	.2909	.1883	.1181	.0724	.0432	.0252	.0143	.0080	.0043	.0023	.0011	.0005	.0003	.0001					29
2	.1751	.3829	.5662	.4960	.3634	.2560	.1746	.1152	.0739	.0460	.0280	.0165	.0095	.0052	.0028	.0016	.0008	.0003	.0001			28
3	.0711	.1994	.3525	.5040	.5422	.4195	.3130	.2254	.1572	.1063	.0699	.0445	.0276	.0165	.0097	.0056	.0031	.0016	.0008	.0003	.0002	27
4	.0283	.0971	.2013	.3273	.4576	.5803	.4661	.3618	.2716	.1975	.1393	.0952	.0632	.0407	.0255	.0156	.0092	.0052	.0029	.0014	.0008	26
5	.0110	.0448	.1072	.1969	.3044	.4202	.5339	.5061	.4050	.3140	.2360	.1719	.1216	.0834	.0556	.0360	.0226	.0137	.0081	.0045	.0026	25
6	.0042	.0197	.0537	.1108	.1887	.2837	.3879	.4939	.5415	.4440	.3532	.2726	.2042	.1484	.1047	.0718	.0477	.0307	.0192	.0115	.0068	24
7	.0015	.0083	.0254	.0587	.1097	.1794	.2642	.3592	.4584	.5559	.4798	.3898	.3077	.2358	.1755	.1269	.0889	.0604	.0398	.0253	.0157	23
8	.0005	.0033	.0113	.0294	.0601	.1067	.1691	.2457	.3330	.4263	.5201	.5129	.4244	.3414	.2669	.2028	.1494	.1068	.0741	.0497	.0323	22
9	.0001	.0012	.0047	.0140	.0311	.0598	.1020	.1583	.2282	.3089	.3966	.4868	.5442	.4573	.3740	.2976	.2298	.1724	.1255	.0885	.0604	21
10		.0004	.0017	.0063	.0152	.0317	.0580	.0962	.1475	.2115	.2863	.3688	.4557	.5739	.4888	.4057	.3274	.2570	.1958	.1447	.1036	20
11		.0001	.0007	.0027	.0070	.0159	.0312	.0551	.0900	.1368	.1954	.2647	.3427	.4260	.5110	.5193	.4363	.3572	.2841	.2195	.1645	19
12			.0002	.0011	.0030	.0075	.0158	.0298	.0518	.0835	.1250	.1797	.2443	.3177	.3976	.4805	.5486	.4667	.3864	.3113	.2436	18
13				.0004	.0012	.0033	.0076	.0152	.0281	.0481	.0767	.1152	.1648	.2246	.2939	.3691	.4512	.5776	.4963	.4157	.3387	17
14				.0001	.0004	.0014	.0034	.0073	.0143	.0261	.0440	.0696	.1050	.1501	.2058	.2706	.3439	.4224	.5035	.5257	.4448	16
15					.0001	.0005	.0014	.0033	.0068	.0133	.0237	.0396	.0630	.0946	.1361	.1872	.2485	.3180	.3941	.4741	.5549	15
16						.0001	.0005	.0014	.0030	.0063	.0120	.0211	.0355	.0561	.0848	.1221	.1696	.2266	.2927	.3662	.4448	14
17							.0001	.0005	.0012	.0028	.0056	.0105	.0187	.0312	.0496	.0748	.1090	.1523	.2054	.2679	.3387	13
18								.0001	.0004	.0011	.0024	.0048	.0092	.0161	.0271	.0428	.0656	.0960	.1355	.1846	.2436	12
19									.0001	.0004	.0009	.0020	.0042	.0077	.0138	.0228	.0368	.0565	.0836	.1192	.1645	11
20										.0001	.0003	.0007	.0017	.0034	.0065	.0112	.0191	.0309	.0479	.0716	.1036	10
21											.0001	.0002	.0006	.0013	.0028	.0050	.0091	.0156	.0253	.0397	.0604	9
22													.0002	.0004	.0011	.0020	.0039	.0072	.0122	.0201	.0323	8
23														.0001	.0004	.0007	.0015	.0030	.0053	.0092	.0157	7
24															.0001	.0002	.0005	.0011	.0020	.0037	.0068	6
25																	.0001	.0004	.0006	.0013	.0026	5
26																		.0001	.0001	.0004	.0008	4
27																				.0001	.0002	3
28																						2
29																						1
30																						0
	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	p \ r

n=40, m=35

r\p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
0	.5395	.2877	.1516	.0789	.0406	.0205	.0102	.0050	.0024	.0011	.0005	.0002	.0001									35
1	.4604	.7121	.3697	.2324	.1406	.0822	.0467	.0258	.0139	.0073	.0038	.0018	.0009	.0004	.0002	.0001						34
2	.2087	4400	.6302	.4162	.2863	.1887	.1202	.0738	.0437	.0252	.0142	.0076	.0041	.0021	.0011	.0005	.0002	.0001				33
3	.0930	.2498	.4241	.5837	.4489	.3265	.2281	.1532	.0991	.0622	.0378	.0221	.0127	.0071	.0038	.0020	.0010	.0005	.0002	.0001		32
4	.0407	.1336	.2645	.4104	.5509	.4745	.3589	.2607	.1822	.1232	.0805	.0507	.0311	.0185	.0106	.0059	.0032	.0017	.0008	.0004	.0002	31
5	.0175	.0681	.1551	.2698	.3979	.5254	.4962	.3857	.2886	.2086	.1456	.0781	.0641	.0405	.0248	.0147	.0084	.0047	.0024	.0013	.0007	30
6	.0074	.0333	.0863	.1672	.2704	.3864	.5037	.5147	.4087	.3137	.2324	.1663	.1153	.0772	.0501	.0314	.0190	.0112	.0062	.0035	.0019	29
7	.0030	.0156	.0458	.0983	.1739	.2688	.3750	.4852	.5311	.4297	.3361	.2540	.1860	.1315	.0901	.0597	.0381	.0237	.0140	.0082	.0046	28
8	.0012	.0070	.0233	.0551	.1062	.1774	.2650	.3645	.4686	.5467	.4487	.3564	.2743	.2041	.1472	.1026	.0690	.0451	.0282	.0173	.0101	27
9	.0004	.0030	.0114	.0295	.0618	.1114	.1781	.2606	.3544	.4531	.5512	.4661	.3755	.2929	.2215	.1620	.1145	.0685	.0517	.0332	.0204	26
10	.0001	.0012	.0053	.0151	.0343	.0667	.1140	.1776	.2557	.3442	.4386	.5338	.4827	.3931	.3107	.2378	.1760	.1264	.0874	.0587	.0379	25
11		.0004	.0024	.0074	.0182	.0381	.0696	.1154	.1760	.2498	.3340	.4249	.5172	.4982	4100	.3273	.2531	.1899	1374	0965	0652	24
12		.0001	.0010	.0034	.0092	.0208	.0405	.0715	.1156	.1732	.2433	.3241	.4115	.5017	.5133	.4260	.3430	.2683	.2027	.1486	.1049	23
13			.0004	.0015	.0044	.0108	.0225	.0423	.0725	.1147	1694	.2366	.3139	3986	.4864	.5279	4412	3587	2823	2156	1589	22
14			.0001	.0006	.0020	.0053	.0119	.0238	.0434	.0725	.1126	.1652	.2293	.3038	.3857	.4719	.5418	.4566	.3732	.2964	.2276	21
15				.0002	.0008	.0025	.0059	.0127	.0248	.0437	.0715	.1102	.1602	.2217	.2934	.3732	.4577	.5563	.4709	.3880	.3097	20
16					.0003	.0011	.0027	.0064	.0135	.0251	.0433	.0702	.1069	.1547	2137	.2830	3607	.4436	5698	4857	4020	19
17					.0001	.0004	.0011	.0030	.0070	.0137	.0250	.0426	.0680	.1030	.1487	.2054	.2725	.3480	.4301	.5840	.5000	18
18						.0001	.0004	.0013	.0034	.0071	.0137	.0246	.0412	.0653	.0987	.1423	.1968	.2615	.3354	.4159	.5000	17
19							.0001	.0005	.0016	.0035	.0071	.0135	.0237	.0394	.0623	.0939	.1356	.1877	.2505	.3221	.4020	16
20								.0001	.0007	.0016	.0035	.0070	.0129	.0225	.0373	.0588	.0888	.1283	.1785	.2392	.3097	15
21									.0003	.0007	.0016	.0034	.0066	.0122	.0211	.0349	.0551	.0832	.1209	.1688	.2276	14
22									.0001	.0003	.0007	.0016	.0032	.0062	.0112	.0195	.0323	.0510	.0775	.1130	.1589	13
23										.0001	.0003	.0007	.0014	.0028	.0056	.0102	.0178	.0294	.0468	.0714	.1049	12
24											.0001	.0003	0006	.0012	.0026	0050	0092	0158	.0265	.0423	.0652	11
25												.0001	.0002	.0004	.0011	.0022	.0044	.0079	.0140	.0234	.0379	10
26														.0001	.0004	.0009	.0019	.0036	.0068	.0120	.0204	9
27															.0001	.0003	.0007	.0015	.0030	.0056	.0101	8
28																.0001	.0002	.0005	.0012	.0024	.0046	7
29																		.0001	.0004	.0009	.0019	6
30																			.0001	.0003	.0007	5
31																				.0001	0002	4
32																						3
33																						2
34																						1
35																						0
	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	p\r

n=40, m=40

r \ p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
0	.5068	.2530	.1249	.0608	.0292	.0138	.0064	.0030	.0013	.0006	.0003	.0001										40
1	.4932	.5092	.3171	.1873	.1062	.0581	.0309	.0160	.0080	.0039	.0019	.0009	.0003	.0001								39
2	.2402	.4905	.5118	.3496	.2263	.1399	.0832	.0477	.0264	.0142	.0074	.0038	.0017	.0008	.0003	.0001						38
3	.1153	.2983	.4878	.5140	.3702	.2534	.1660	.1043	.0631	.0369	.0208	.0115	.0059	.0030	.0014	.0007	.0003	.0001				37
4	.0545	.1718	.3255	.4858	.5161	.3847	.2738	.1866	.1221	.0770	.0468	.0276	.0155	.0085	.0044	.0023	.0011	.0005	.0002	.0001		36
5	.0253	.0948	.2054	.3419	.4838	.5178	.3958	.2896	.2034	.1374	.0893	.0562	.0338	.0198	.0111	.0061	.0031	.0016	.0008	.0004	.0001	35
6	.0115	0505	.1236	2284	.3525	4820	.5195	.4045	3024	.2174	.1504	.1004	0643	.0400	.0238	.0138	.0076	.0041	.0022	.0011	0004	34
7	.0051	.0261	.0713	.1456	.2447	.3600	.4800	.5212	.4118	.3131	.2292	.1618	.1108	.0721	.0455	.0278	.0163	.0093	.0051	.0027	.0012	33
8	.0022	.0131	.0396	.0890	.1624	.2570	.3651	.4785	.5228	.4180	.3221	.2394	.1723	.1185	.0788	.0507	.0314	.0188	.0108	.0059	.0030	32
9	.0009	.0064	.0212	.0523	.1034	.1757	.2661	.3691	.4767	.5246	.4233	.3299	.2488	.1800	.1258	.0850	.0553	.0348	.0210	.0121	.0066	31
10	.0003	.0030	.0109	.0286	.0633	.1153	.1861	.2734	.3718	.4752	.5262	.4281	.3373	.2556	.1872	.1325	.0904	.0596	.0377	.0229	.0133	30
11	.0001	.0014	.0054	.0162	.0373	.0728	.1250	.1946	.2789	.3739	.4736	.5280	.4330	.3424	.2619	.1937	.1382	.0953	.0631	.0402	.0246	29
12		.0006	.0025	.0085	.0212	.0443	.0807	.1332	.2013	.2834	.3754	.4718	.5304	.4360	.3473	.2677	.1992	.1434	.0992	.0661	.0424	28
13		.0002	.0011	.0043	.0116	.0260	.0501	.0877	.1398	.2068	.2869	.3761	.4697	.5313	.4382	.3518	.2725	.2043	.1474	.1026	.0687	27
14			.0004	.0021	.0061	.0147	.0299	.0556	.0934	.1453	.2113	.2893	.3761	.4681	.5328	.4423	.3557	.2771	.2082	.1510	.1055	26
15			.0001	.0010	.0031	.0080	.0172	.0339	.0601	.0983	.1499	.2146	.2908	.3762	.4665	.5346	.4452	.3596	.2806	.2117	.1540	25
16				.0004	.0015	.0042	.0095	.0199	.0372	.0640	.1024	.1534	.2168	.2920	.3760	.4649	.5365	.4481	.3625	.2838	.2146	24
17				.0001	.0007	.0021	.0050	.0112	.0221	.0401	.0673	.1056	.1558	.2187	.2928	.3755	.4632	.5386	.4505	.3653	.2865	23
18					.0003	.0010	.0025	.0060	.0126	.0241	.0425	.0699	.1077	.1578	.2200	.2930	.3746	.4610	.5404	.4528	.3677	22
19					.0001	.0004	.0011	.0031	.0069	.0139	.0258	.0445	.0716	.1096	.1592	.2206	.2927	.3730	.4592	.5424	.4551	21
20						.0001	.0004	.0015	.0036	.0077	.0150	.0272	.0457	.0731	.1108	.1599	.2206	.2915	.3717	.4573	.5447	20
21							.0001	.0007	.0018	.0041	.0083	.0160	.0279	.0468	.0741	.1114	.1600	.2196	.2905	.3699	.4551	19
22								.0003	.0008	.0021	.0044	.0080	.0163	.0287	.0475	.0745	.1115	.1591	.2187	.2887	.3677	18
23								.0001	.0003	.0010	.0022	.0048	.0080	.0168	.0291	.0477	.0745	.1106	.1582	.2169	.2865	17
24									.0001	.0004	.0010	.0024	.0047	.0093	.0170	.0232	.0476	.0736	.1097	.1564	.2146	16
25										.0001	.0004	.0011	.0023	.0049	.0094	.0170	.0230	.0467	.0727	.1079	.1540	15
26											.0001	.0004	.0010	.0024	.0049	.0094	.0168	.0282	.0459	.0710	.1055	14
27												.0001	.0004	.0011	.0024	.0049	.0092	.0161	.0275	.0444	.0687	13
28													.0001	.0004	.0011	.0024	.0048	.0087	.0156	.0262	.0424	12
29														.0001	.0004	.0011	.0023	.0044	.0083	.0146	.0246	11
30															.0001	.0004	.0010	.0021	.0041	.0076	.0133	10
31																.0001	.0004	.0009	.0019	.0037	.0066	9
32																	.0001	.0003	.0008	.0017	.0030	8
33																		.0001	.0003	.0007	.0012	7
34																			.0001	.0003	.0004	6
35																				.0001	.0001	5
36																						4
37																						3
38																						2
39																						1
40																						0
	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	p \ r

"STUDENT'S" METHOD OF ESTIMATING THE SIGNIFICANCE OF DIFFERENCES

Judging the Reliability of Results from Small Samples

One method of obtaining the effect of a change in a single factor or kind of influence is to make one series of measurements of the dependent quantity corresponding to values of that factor within a given interval, and another series corresponding to values of the factor ranging through a different interval and having a different average. The difference between these two averages is an indication of the change accompanying a variation of the factor in question from its mean value in the first interval to its mean value in the second. The variability in each series is due in part to the corresponding range in the value of the factor, in part to the variation in other influencing factors, and in part to accidental errors in measurement, and sampling. Corrections should be applied in order to reduce the variability as much as possible, McEwen and Michael (1919, pp. 131–133) before estimating the significance of the difference. In the cases of this kind already presented in section 2 the variability was not reduced, but the uncorrected observations served to illustrate the method of estimating significance of differences.

Although accidental errors of measurement cannot be entirely eliminated, and in certain types of work are inherently large, it is theoretically possible to reduce the variability to a minimum by measuring all of the relevant factors and making the corresponding corrections. In case practical difficulties make a sufficiently close approach to this ideal impossible, the field or laboratory technique may be arranged to accomplish the result by means of the comparative or differential method. To take advantage of this method, make a pair of measurements, each under as nearly identical conditions as possible except for the factor in question. The necessity of making the observations under identical conditions, or when the members of each pair are exactly comparable is well demonstrated by Weir (1925, pp. 949–956). Repeated measurements of this kind will yield a series of differences, each difference being due to a change in the factor in question and to accidental errors of measuring and sampling. The variation in other factors from one pair to another tends to produce the same change in each of the two individuals of a pair. Thus, the comparative method serves to give as directly as possible the influence of the factor in question, and to reduce to a minimum the effect of variations in the other factors. Accordingly such a method tends to increase the significance of the resulting difference. Thus the comparative method is more efficient

than one in which the result depends upon the difference between two averages. In the latter case unless the variability is reduced by measurements of all relevant factors, the result will not be as reliable as in the former. Illustrations of the comparative method and its advantages are given by "Student" (1923) in a paper on certain crop experiments. He calls attention to the fact that a positive correlation r_{AB} between the values in two series A and B to be compared reduces the value of the standard deviation, σ of the difference between the two averages below that found by the usual method of taking the square root of the sum $(\sigma_A^2+\sigma_B^2)$. The general formula is

$$\sigma_{AB}=(\sigma_A^2+\sigma_B^2-2r_{AB}\sigma_A\sigma_B)^{1/2}$$

The problem of estimating the significance of a difference found by the comparative method will be illustrated by means of the data used by "Student" (1908–09, pp. 23–25). Experiments were made to determine whether it is of advantage to kiln-dry barley seed before sowing. Seven varieties were sown (both kiln-dried and not kiln-dried) in 1899 and four varieties in 1900. The "price of head corn in shillings per quarter" was used as one of the measures of the result (table 7).

TABLE 7

Price of head corn in shillings per quarter

(1) Not kiln-dried	(2) Kiln-dried	Difference	
26.5	26.5	0	
28.0	26.5	−1.5	
29.5	28.5	−1.0	
30.0	29.0	−1.0	
27.5	27.0	−0.5	
26.0	26.0	0	
29.0	26.0	−3.0	
29.5	28.5	−1.0	
28.5	28.0	−0.5	
30.0	29.0	−1.0	
28.5	28.0	−0.5	
28.45	27.55	−0.91	Average
		0.79	Standard deviation $=\sigma$

These experiments yield eleven pairs of values, and the difference between each pair may be regarded as a measure of the difference resulting from two kinds of treatment of barley seed. The average of these eleven differences is an index of the effect of the two kinds of treatment afforded by the series of experiments, and the question is: What is the significance of this average? In his paper on The Probable Error of a Mean, from which this example was copied "Student" (1908-09, pp. 1-25) presents a method which has withstood careful investiga-

tion by several other statisticians, Soper (1913), Fisher (1914–15), Pearson (1914–15), Soper *et al* (1915–17), Young (1915–17), and Newbold (1923). His method can be readily applied, although its derivation and critical examination cannot be followed without a familiarity with mathematical statistics not possessed by many to whom the results of his studies may be of great practical value. It has been used by several authors of biological and agricultural papers within the past few years and promises to be more widely used in the future. Shewhart (1926, pp. 308–319) has given an excellent popular explanation of "Student's" method.

The following brief statement of certain comments "Student" has made on statistical problems together with table 13 taken from "Student" (1915–17) to facilitate the application of his method should prove useful to many investigators who recognize the limitations of the usual method of least squares. He regards "any experiment as forming an individual of a population of experiments which might be performed under the same conditions." A series of experiments is a sample drawn from this population. The value of a mean, either directly or the mean difference between two quantities, is in many cases the index upon which judgment is formed as to the "population." Owing to the error of sampling, the mean of the series of experiments deviates more or less widely from the mean of the population, and the sample may not be sufficiently large to determine what is the law of distribution of the individuals. "Student's" (1908–09) paper is concerned with the first source of uncertainty, the error of random sampling, and although he assumes a normal distribution of the individuals in deriving his results, a departure from his assumption gives rise to compensating errors that tend to vanish in the end result. Thus he has shown that his method will not be seriously in error unless the departure from normality in the "population" is extreme.

His method was devised with special reference to types of experiments that cannot be easily repeated very often, thus making it necessary to judge of the certainty of the results from a very small sample. "Some chemical, many biological, and most agricultural and large-scale experiments belong to this class, which has hitherto been almost outside the range of statistical inquiry," as "Student" (1908–09, p. 2) says. His aim was to determine the point at which the tables of the normal probability integral may be used in judging of the significance of the mean of a series of experiments, and to furnish alternative tables for use when the number of experiments is too few. He has deduced an equation representing the frequency distribution of standard deviations of samples containing various numbers of individuals drawn from a normal population, and another of the frequency distribution of the ratio of the departure of the mean of a sample from the mean of the

population to the standard deviation of the sample. His table (reproduced in table 13 of this paper) computed from these equations gives "the probability that the value of the mean, measured from the mean of the population, in terms of the standard deviation of the sample will lie between the limits minus infinity and z." Thus, referring to table 13 for samples of 6, the probability of the mean of the population lying between minus infinity and one times the standard deviation of the sample is found under $n=6$ and in line with $z=1$, to be .9622. Accordingly the odds are about 25 to one that the mean of the population lies between these limits. The probability is therefore .0378 that the mean of the population is greater than once the standard deviation and $2\times 0.0378=.0756$ that it lies outside the limits 1.0 times the standard deviation. For a negative value of z the tabular entry corresponding to the same numerical value of z gives the probability that the mean measured from the mean of the population in terms of the standard deviation of the sample will lie between plus infinity and z where z is negative. The probability for the interval minus infinity and z is the difference between 1 and this tabular entry, if z is negative.

In the illustrative example, page 109, table 7, $z=.91\div.79=1.15$, and the tabular entry under $n=11$ is .9976, or the odds are 416 to 1 that the kiln-dried seed produces barley of a worse quality than seed which is not kiln-dried.

The method of section 2 of this paper will now be applied to the same data, which are reproduced in table 8, arranged in the order of magnitude.

TABLE 8

Price of head corn in shillings per quarter arranged in the order of magnitude

Not kiln-dried	Kiln-dried
30.0	29.0
30.0	29.0
29.5	———
29.5	28.5
29.0	28.5
28.5	28.0
———	28.0
28.5	27.0
28.0	26.5
27.5	26.5
26.5	26.0
26.0	26.0
———	———
28.45	27.55

Dividing the two series as indicated, the upper group of the first series averages 29.4 and contains 6 entries, the lower group averages 27.3 and contains 5 entries. The upper group of the second series averages 29.0 and contains 2 entries, and the lower group contains 9 entries

whose average is 27.2. The probability of getting 2 or less out of 11 when the ratio was 6 to 11 in the first trial is 0.06. The average of series (2) computed from group means in (1) and numbers per group in (2) is 27.6. According to the method of "Student" the probability is $(1-.9976)=0.0024$ which is only 0.04 times 0.06, the probability found by the "group ratio method." The corresponding odds that the difference is in the direction indicated by the samples are respectively 416 to 1 and $.94 \div .06 = 16$ to 1. This apparent discrepancy is due to the fact that "Student" used the differences between corresponding pairs of values, the experiments being conducted according to the comparative method. Therefore by his method the estimate of the odds should be higher than that by the "group ratio method," which did not use this information but depended upon the average of each series and the variability of each series.

Table 9

Values of the entries in table 7 corrected for the complex of factors tending to produce the same change in the individuals of each pair of values. The corrected values are arranged in the order of magnitude

(1)	(2)
30.41	27.97
28.96	——
28.68	27.97
28.68	27.93
28.63	27.93
28.63	27.84
28.09	27.78
28.09	27.78
——	27.68
28.00	27.65
27.46	26.81
27.41	25.62
——	——
28.45	27.55

If the first series is arranged in the order of magnitude, and the corresponding values are entered in the second series, the latter will also be arranged approximately in the order of magnitude. Thus a strong positive correlation between the two is indicated, or some complex of influences is varying in such a way as to produce a regular decrease in the value of the entry in each series (from top to bottom). Regarding the first series as an index of the variation of this group of influences, find the regression of the second series on the first, then find the regression of the first on the second. The deviation of any entry of the first series from its average, computed from the observed deviation of the corresponding entry of the second series, is .913× (deviation from mean in second series). The deviation of the second series computed from the first is .687× (deviation from mean in first series).

Change the signs of the computed deviations and add these values algebraically to the corresponding entries in the series. In this way each entry is corrected for the variation in the common influence from its average value. Arrange each corrected series in the order of magnitude and apply the "group ratio method" of estimating the probability using the division points indicated in table 9.

The probability of getting 1 or less out of 11 after a first sample of 8 out of 11 is 0.0021. Since these are corrected series in which a single regression coefficient is used, the number of entries in each series should be reduced by 1 (McEwen and Michael, 1919, pp. 131–132). Using the same proportions but the reduced number of observations, the probability was found to be 0.0039. The corresponding odds of 255 to 1 agree reasonably well with "Student's" estimate of 416 to 1.

Extension of "Student's" Method to Cases in which the Number of Observations is Different in the Two Series

One objection to "Student's" method that has been mentioned by investigators interested in practical applications is that it is limited to cases in which the number of observations is the same in each series whose averages are to be compared. Moreover the *comparative* method of making the observation is implied, and in many cases it is not possible to arrange the "field" or laboratory technique in accordance with the requirements of the comparative method. It is possible, however, to use his method indirectly in the general case of unequal numbers of observations not necessarily made in pairs, as will now be shown.

A method involving the sum of products of probabilities will be explained first. This idea appears to be so useful and so theoretically simple that it has, no doubt, been applied by others. However, the writer has seen no account of it, and therefore presents it here. Select some convenient interval, say two- or three-tenths of the standard deviation of one of the two series. Subtract the value of this interval successively from the larger average, thus obtaining a series of quantities less than the average, and by successive addition obtain a series of quantities greater than the average. Divide each deviation from the average by the standard deviation of the series, and find the corresponding probabilities from table 13. In this way a tabulation can be made of a series of values of the mean and the probability of getting a mean equal to or less than these values. The lower limit of the series should theoretically correspond to a zero probability, but practically a value corresponding to a probability as small as 0.001 can be used for the lower limit, and a value corresponding to a probability as high as 0.999 will be large enough for the upper limit. Use for the smallest deviation, algebraically, of the series having the smaller average, the value found by adding {(larger average minus the smaller average) minus ½

(interval)} to the smallest deviation used with the series having the larger average. Enter this on the same line as the latter. Increase this deviation by 1 × (interval), 2 × (interval), 3 × (interval), etc., and find from table 13 the probabilities corresponding to these deviations. Subtract the first probability from the second, the second from the third, the third from the fourth, etc. These differences are the probabilities that the mean of the series having the smaller average lies in each interval. Multiply each probability in the last column by the probability on the same line corresponding to the first series. The sum of these products will be the probability of getting a mean from a first sample (having the same number of entries as series 1) that equals or exceeds the mean of the second sample (having the same number of entries as series 2). The following numerical application to the data of table 7, page 109 illustrates this "sum product" method.

Table 10

Computation of the probability that the mean of a sample from the population from which series B was drawn will be equal to or greater than the mean of a sample from the population from which series A was drawn

Mean of series $A = 28.45$, Standard deviation $= 1.288$
Mean of series $B = 27.55$, Standard deviation $= 1.118$
Assumed interval $= .20$. Number of observations, n in each series is 11.

(Dev. from 28.45) $= D_A$	$Z_A = \frac{D_A}{1.288}$	(Dev. from 27.55) $= D_B$	$Z_B = \frac{D_B}{1.118}$	(Prob. for D_A) $= Pr_A$	(Prob. for D_B) $= Pr_B$	(Diff. of Pr_B) $= \Delta Pr_B$	Product of Pr_A by ΔPr_B
−1.6	−1.241	−0.8	−0.716	0.0015	0.0239	0.0379	0.000
−1.4	−1.086	−0.6	−0.537	0.0033	0.0618	0.0830	0.000
−1.2	−0.931	−0.4	−0.358	0.0076	0.1448	0.1486	0.0011
−1.0	−0.776	−0.2	−0.179	0.0175	0.2934	0.2076	0.0036
−0.8	−0.621	0.0	0.000	0.0397	0.5000	0.2066	0.0082
−0.6	−0.466	0.2	0.179	0.0877	0.7066	0.1486	0.0130
−0.4	−0.310	0.4	0.358	0.1761	0.8552	0.0830	0.0146
−0.2	−0.155	0.6	0.537	0.3193	0.9382	0.0379	0.0121
−0.0	−0.000	0.8	0.716	0.5000	0.9761	0.0149	0.0075
0.2	0.155	1.0	0.895	0.6807	0.9910	0.0055	0.0037
0.4	0.310	1.2	1.074	0.8239	0.9965	0.0021	0.0017
0.6	0.466	1.4	1.253	0.9123	0.9986	0.0009	0.0008
0.8	0.621	1.6	1.431	0.9603	0.9995	0.0002	0.0002
1.0	0.776	1.8	1.610	0.9825	0.9997	0.0002	0.0002
1.2	0.931	2.0	1.790	0.9924	0.9999	0.0001	0.0001

Sum of the products of the probabilities $= 0.0673$

The probability 0.0673 obtained by summing the products of probabilities corresponding to the means of the two samples or the "sum product method" agrees well with the value 0.0601 found by the group ratio method.

"Student's" method can also be extended in the following way. The square root of the sum of the squares of the standard deviations of the two series equals $\sqrt{1.288^2+1.118^2}=1.705$. Dividing the difference between the two means by this standard deviation gives $0.90 \div 1.705 = .528$. The value of the probability for $n=11$ corresponding to this value of z, is .9356. Subtracting this result from 1.00 gives 0.0644 which agrees well with the two results already obtained. In applying this method to series having different numbers of observations, find the probability corresponding to each number of entries or value of n, and interpolate between these probabilities. Another way of interpolating is to find the probability in the table corresponding to $n=$the mean of the numbers of entries for the two series. Values interpolated by either method will approximate more nearly to the correct probability the smaller the difference between the number of entries in the two series.

The idea of summing the products of corresponding probabilities can be applied to the original series without using "Student's" theory, as illustrated by the same data taken from table 7. The number of entries (eleven) is rather small for the application of this method.

TABLE 11

Frequency distribution of entries from series 1 and 2 of table 7 in the interval entered at the left

Interval	Frequency from series 1	Sums of frequencies from series 1	Frequencies from series 2	Product of the two preceding columns
26.00–26.49	1	1	2	2
26.50–26.99	1	2	2	4
27.00–27.49	0	2	1	2
27.50–27.99	1	3	0	0
28.00–28.49	1	4	2	8
28.50–28.99	2	6	2	12
29.00–29.49	1	7	2	14
29.50–29.99	2	9	0	0
30.00–30.49	2	11	0	0
Sums	11		11	42

The probability that a single entry drawn at random from series 2 will exceed the value of a single entry drawn at random from series 1 is $42 \div (11 \times 11) = 0.347$. Corresponding to the probability $(1-0.347) = 0.653$ of table 14, column 2 is found in column 1, the entry 0.394, of the ratio of the deviation to the standard deviation. Therefore, $= .90 \div .394 = 2.28$. Divide this by $\sqrt{11-1} = 3.16$, the result .722 is the standard deviation of the difference between the two means. Corresponding to the ratio $.90 \div .722 = 1.247$ in column 1 table 14, the probability in column 2 is .894. The difference $(1-.894) = .106$ is the probability of getting a difference between the two means as great as .90 or greater. The probabilities obtained by the four methods are respectively, 0.0601, 0.0673, 0.0644, and 0.106. The value 0.0475 found by the

usual probable error method is smaller than any of the above values. As the probability becomes smaller, or the result more significant, the difference between the above methods and the probable error method becomes proportionately greater. The latter method tends more and more to underestimate the probability or to overestimate the significance.

In some experiments by Sumner (1909, tables 6A and 6B, pp. 123–124) on the effect on mice of changes of temperature the series of measurements of foot length presented in table 12 were made.

Table 12

Foot length of mice arranged in the order of magnitude		Computation of probability by the "group ratio method"						
(A) Warm room	(B) Cold room	Separating value	Upper av.	Group no.	Lower av.	Group no.	Computed av. of series B	Probability
18.20	17.50							
18.10	17.50	17.0 (A)	17.45	19	16.73	3		
17.90	17.40	(B)	17.35	7	16.53	14	16.96	.0003
17.60	17.30							
17.60	17.30	16.9 (A)	17.41	21	16.40	1		
17.60	17.20	(B)	17.23	9	16.46	12	16.84	.0001
17.50	17.10							
17.50	16.90							
17.50	16.90							
17.50	16.80							
17.40	16.80							
17.30	16.70							
17.30	16.70							
17.20	16.60							
17.20	16.50							
17.20	16.40							
17.10	16.40							
17.00	16.30							
17.00	16.30							
16.90	16.20							
16.90	16.00							
16.40	.....							
22 | 381.90	21 | 352.80							
17.36	16.80	Means						
.402	.440	Standard deviation of series						

The probabilities found by applying the other three methods using "Student's" tables and the probability integral in the same order as in the preceding example are respectively .00021, .00025, and .00010. The results from all of the above methods are in good agreement, while the value .000017 found by the usual probable error method is about 1/10 of that found by other methods.

..In general the usual probable error method tends to overestimate the reliability of a difference, especially when the probability is small, which corresponds to the "tails" of the curve of error. This tendency to overestimate the reliability is due to the fact that (Pearson, 1914–15, p. 528) the standard deviation of a sample is usually less than that of the true population. But as the number of observations increases the standard deviation of the sample approximates more closely to that of the true population, and for samples of 50 or more the usual theory is satisfactory if the distribution in the population is approximately normal.

The intervals used in the first method was .05. In the third method the intervals were 16.00 to 16.19, 16.20 to 16.39, 16.40 to 16.59 etc.

"Student's" Probability Integral and Explanation of Its Tabulation (Table 13)

According to "Student" (1908–09) the probability that the value of the mean of a sample, measured from the mean of the population in terms of the standard deviation of the sample, will lie between the limits minus infinity and a positive value z, is for even values of n

$$P = \frac{(n-2)(n-4)(n-6)\cdots 4\cdot 2}{(n-3)(n-5)(n-7)\cdots 3\cdot \pi}\int_{-\infty}^{z}(1+z^2)^{-\frac{n}{2}}\,dz$$

For odd values of n substitute $\frac{3.1}{2.2}$ for $\frac{4.2}{3.\pi}$. In this formula n is the number of observations or measurements in the sample, and $z=\frac{x}{\sigma}$ equals the ratio of the deviation of the mean of the sample from the mean of the population to the standard deviation of the sample. Values of the probability P are entered in table 13 under n and in line with z. The differences ΔP entered at the right of values of P correspond to differences of .01 in z for values of z less than 3.5. ΔP corresponds to $\Delta z = .1$ for values of z greater than 3.5.

For values of n greater than 30, the limit of the table, the simpler formula

$$P = \frac{1}{\sqrt{2\pi}}\int_{-\infty}^{z\sqrt{n-3}} e^{-\frac{t^2}{2}}\,dt$$

applies approximately. It is the value in column 2 of table 14 corresponding to the value of $z\sqrt{(n-3)}$ in column 1. Values of P given by this approximate formula are entered at the end of the table for comparison with the true values.

Values of the Probability P Computed from "Student's" Probability Integral (Table 13)

Table 13

Probability that the ratio of the deviation, x of the mean of a sample from the mean of the population to σ, the standard deviation of the sample, will lie between the limits minus infinity and $+z$.

Z	n=2	ΔP	n=3	ΔP	n=4	ΔP	n=5	ΔP	n=6	ΔP
0	.5000		.5000		.5000		.5000		.5000	
		.0032		.0050		.0063		.0075		.0084
.1	.5317		.5498		.5633		.5745		.5841	
		.0031		.0048		.0061		.0071		.0079
.2	.5628		.5981		.6241		.6453		.6634	
		.0030		.0046		.0056		.0064		.0071
.3	.5928		.6437		.6804		.7096		.7340	
		.0028		.0042		.0051		.0056		.0060
.4	.6211		.6857		.7309		.7657		.7940	
		.0027		.0038		.0044		.0047		.0049
.5	.6476		.7236		.7749		.8131		.8428	
		.0024		.0034		.0038		.0039		.0039
.6	6720		.7573		.8125		.8518		.8813	
		.0022		.0029		.0032		.0031		.0030
.7	.6944		.7867		.8440		.8830		.9109	
		.0020		.0026		.0026		.0025		.0022
.8	.7148		.8123		.8701		.9076		.9332	
		.0019		.0022		.0021		.0019		.0017
.9	.7333		.8345		.8915		.9269		.9498	
		.0017		.0019		.0018		.0015		.0012
1.0	.7500		.8536		.9092		.9419		.9622	
		.0015		.0016		.0014		.0012		.0009
1.1	.7651		.8700		.9236		.9537		.9714	
		.0014		.0014		.0012		.0009		.0007
1.2	.7789		.8841		.9354		.9628		.9782	
		.0012		0012		.0010		.0007		.0005
1.3	.7913		.8963		.9451		.9700		.9832	
		.0011		.0011		.0008		.0006		.0004
1.4	.8026		.9069		.9531		.9756		.9870	
		.0010		.0009		.0007		.0004		.0003
1.5	.8128		.9160		.9598		.9800		.9899	
		.0009		.0008		.0005		.0004		.0002
1.6	.8222		.9240		.9652		.9836		.9920	
		.0009		.0007		.0005		.0003		.0002
1.7	.8308		.9310		.9699		.9864		.9937	
		.0008		.0006		.0004		.0002		.0001
1.8	.8386		.9371		.9737		.9886		.9950	
		.0007		.0005		.0003		.0002		.0001
1.9	.8458		.9425		.9770		.9904		.9959	
		.0007		.0005		.0003		.0002		.0001
2.0	.8524		.9472		.9797		.9919		.9967	
		.0006		.0004		.0002		.0001		.0001
2.1	.8585		.9514		.9821		.9931		.9973	
		.0006		.0004		.0002		.0001		.0001
2.2	.8642		.9552		.9841		.9941		.9978	
		.0005		.0003		.0002		.0001		
2.3	.8695		.9585		.9858		.9950		.9982	
		.0005		.0003		.0002		.0001		
2.4	.8743		.9615		.9873		.9957		.9985	
		.0005		.0003		.0001		.0001		

TABLE 13—(*Continued*)

Z	n=2 ΔP	n=3 ΔP	n=4 ΔP	n=5 ΔP	n=6 ΔP
2.5	.8789	.9642	.9886	.9963	.9987
	.0004	.0003	.0001		
2.6	.8831	.9667	.9898	.9967	.9989
	.0004	.0002	.0001	.0001	
2.7	.8871	.9689	.9908	.9972	.9991
	.0004	.0002	.0001		
2.8	.8908	.9709	.9916	.9975	.9992
	.0004	.0002	.0001		
2.9	.8943	.9727	.9924	.9978	.9993
	.0003	.0002	.0001		
3.0	.8976	.9743	.9931	.9981	.9994
	.0003	.0002	.0001		
3.1	.9007	.9759	.9937	.9983	.9995
	.0003	.0001	.0001		
3.2	.9036	.9772	.9942	.9984	.9996
	.0003	.0001	.0001		
3.	.9063	.9785	.9947	.9986	.9996
	.0003	.0001			
3.4	.9089	.9797	.9951	.9988	.9997
	.0003	0001			
3.5	.9114	.9808	.9955	.9989	.9997
	.0021	.0009	.0003	.0001	
4.0	.9220	.9851	.9969	.9994	.9998
	.0017	.0006	.0002		
4.5	.9303	.9881	.9977	.9996	.9998
	.0014	.0004	.0001		
5.0	.9372	.9903	.9984	.9997	.9999
	.0011	.0003	.0001		
5.5	.9428	.9919	.9988	.9998	
	.0009	.0003			
6.0	.9474	.9932	.9990	.9999	
	.0008	.0002			
6.5	.9514	.9942	.9992		
	.0007	.0002			
7.0	.9548	.9950	.9994		
	.0006	.0001			
7.5	.9578	.9956	.9995		
	.0005	.0001			
8.0	.9604	.9961	.9996		
	.0005	.0001			
8.5	.9627	.9966	.9996		
	.0004	.0001			
9.0	.9648	.9969	.9997		
	.0004	.0001			
9.5	.9666	.9973	.9997		
	.0003				
10.0	.9683	.9975	.9998		

Z	n=7 ΔP	n=8 ΔP	n=9 ΔP	n=10 ΔP	n=11 ΔP
0	.5000	.5000	.5000	.5000	.5000
	.0093	.0101	.0108	.0115	.0121
.1	.5928	.6006	.6079	.6146	.6210
	.0087	.0093	.0099	.0104	.0109
.2	.6795	.6936	.7066	.7185	.7295
	.0075	.0080	.0083	.0086	.0088
.3	.7549	.7733	.7896	.8042	.8174
	.0063	.0064	.0065	.0066	.0065
.4	.8175	.8375	.8547	.8697	.8827
	.0049	.0049	.0048	.0046	.0045

Table 13—(*Continued*)

Z	n=7 ΔP	n=8 ΔP	n=9 ΔP	n=10 ΔP	n=11 ΔP
.5	.8667	.8863	.9025	.9161	.9275
	0037	.0036	.0034	.0031	.0029
.6	.9040	.9218	.9360	.9473	.9565
	.0027	0025	.0023	.0020	.0018
.7	.9314	.9468	.9585	.9675	.9744
	.0020	.0017	.0015	.0013	.0011
.8	.9512	.9640	.9733	.9801	.9851
	.0014	.0012	.0010	.0008	.0006
.9	.9652	.9756	.9828	.9878	.9913
	.0010	.0008	.0006	.0005	.0004
1.0	.9751	.9834	.9889	.9925	.9949
	0007	.0005	.0004	0003	.0002
1.1	.9821	.9887	.9928	.9954	.9970
	0005	.0004	.0003	.0002	.0001
1.2	.9870	.9922	.9953	.9971	.9982
	.0004	.0002	.0002	.0001	.0001
1.3	.9905	.9946	.9969	.9982	.9990
	0003	.0002	.0001	.0001	
1.4	.9930	.9962	.9979	.9989	.9994
	.0002	.0001	.0001		
1.5	.9948	.9973	.9986	.9993	.9996
	.0001	.0001			
1.6	.9961	.9981	.9990	.9995	.9997
	0001	.0001			
1.7	.9970	.9986	.9993	.9997	.9998
	.0001				
1.8	.9977	.9990	.9995	9998	.9999
	.0001				
1.9	.3983	.9992	.9997	.9999	
2.0	.9986	.9994	.9998		
2.1	.9989	.9996	.9998		
2.2	.9992	.9997	.9999		
2.3	.9993	.9998			
2.4	.9995	.9998			
2.5	.9996	.9998			
2.6	.9996	.9999			
2.7	.9997				
2.8	.9998				
2.9	.9998				
3.0	.9998				
3.1	.9999				

Z	n=12 ΔP	n=13 ΔP	n=14 ΔP	n=15 ΔP	n=16 ΔP
0	.5000	.5000	.5000	.5000	.5000
	.0127	.0133	.0138	.0143	.0148
.1	.6269	.6326	.6380	.6432	.6481
	.0113	.0117	.0120	.0124	.0127
.2	.7397	.7493	.7583	.7668	.7748
	.0090	.0091	.0092	.0093	.0094
.3	.8294	.8404	.8505	.8598	.8683
	.0065	.0064	.0063	.0062	.0061
.4	.8942	.9045	.9135	.9217	.9289
	.0043	.0041	.0039	.0037	.0035
.5	.9373	.9455	.9527	.9588	.9640
	.0027	.0025	.0023	.0021	.0019
.6	.9640	.9701	.9752	.9793	.9827
	.0016	.0014	.0012	.0011	.0009
.7	.9798	.9340	.9873	.9900	.9920
	.0009	.0008	.0006	.0005	.0004

TABLE 13—(*Continued*)

Z	n=12	ΔP	n=13	ΔP	n=14	ΔP	n=15	ΔP	n=16	ΔP
.8	.9888		.9916		.9937		.9952		.9964	
		.0005		.0004		.0003		.0003		.0002
.9	.9938		.9956		.9968		.9977		.9983	
		.0003		.0002		.0002		.0001		.0001
1.0	.9966		.9977		.9984		.9989		.9993	
		.0002		.0001		.0001		.0001		
1.1	.9981		.9988		.9992		.9995		.9997	
		.0001		.0001						
1.2	.9989		.9993		.9996		.9997		.9998	
		.0001								
1.3	.9994		.9996		.9998		.9999		.9999	
1.4	.9997		.9998		.9999					
1.5	.9998		.9999							
1.6	.9999									

Z	n=17	ΔP	n=18	ΔP	n=19	ΔP
0	.5000		.5000		.5000	
		.0153		.0158		.0162
1	.6529		.6575		.6619	
		.0130		.0132		.0135
.2	.7824		.7896		.7965	
		.0094		.0094		.0094
.3	.8762		.8836		.8904	
		.0059		.0058		.0056
.4	.9354		.9413		.9466	
		.0033		.0031		.0029
.5	.9686		.9725		.9760	
		0017		.0015		.0014
.6	.9856		.9879		.9899	
		.0008		.0007		.0006
.7	.9936		.9949		.9960	
		.0004		.0003		.0002
.8	.9972		.9979		.9984	
		.0002		.0001		.0001
.9	.9988		.9991		.9994	
		.0001		0001		
1.0	.9995		.9997		.9998	
1.1	.9998		.9999		.9999	
1.2	.9999					

Z	n=20	ΔP	n=21	ΔP	n=22	ΔP	n=23	ΔP	n=24	ΔP
0	.5000		.5000		.5000		.5000		.5000	
		.01662		.01703		.01744		.01783		.01821
.1	.6662		.6703		.6744		.6783		.6821	
		.01368		.01390		.01408		.01426		.01443
.2	.8030		.8093		.8152		.8209		.8264	
		.00937		.00933		.00930		.00924		.00918
.3	.8967		.9026		.9082		.9133		.9182	
		.00546		.00530		.00513		.00497		.00480
.4	.9513		.9556		.9595		.9630		.9662	
		.00276		.00259		.00243		.00228		.00213
.5	.9789		.9815		.9838		.9858		.9875	
		00126		.00114		.00102		.00092		.00083
.6	.9915		.9929		.9940		.9950		.9958	
		.00052		.00045		.00039		.00034		.00029
.7	.9967		.9974		.9979		.9984		.9987	
		.00021		.00017		.00014		.00011		.00009
.8	.9988		.9991		.9993		.9995		.9996	
		.00007		.00005		.00004		.00003		.00003
.9	.9995		.9996		.9997		.9998		.9999	
		.00004		.00003		.00002		.00001		
1.0	.9999		.9999		.9999		.9999			

Table 13—(*Continued*)

Z	n=25	ΔP	n=26	ΔP	n=27	ΔP	n=28	ΔP
0	.5000		5000		.5000		.5000	
		01858		01894		01929		.01964
1	.6858		.6894		.6929		.6964	
		.01458		.01483		.01486		.01498
.2	8316		8367		.8415		8462	
		00911		.00903		.00894		00885
.3	.9227		.9270		.9309		.9347	
		.00364		00447		00433		.00416
.4	.9691		.9717		.9742		.9763	
		.00199		.00186		.00173		.00162
.5	9890		.9903		.9915		.9925	
		.00074		.00067		.00060		00054
.6	.9964		.9970		.9975		.9979	
		.00026		.00022		00019		.00016
.7	.9990		.9992		.9994		.9995	
		.00007		.00006		00005		.00004
.8	.9997		.9998		.9999		.9999	
		.00002		.00001				
.9	.9999		.9999					

For comparison

$$\frac{1}{\sqrt{2\pi}}\int_{-\infty}^{\sqrt{27}z} e^{-\frac{t^2}{2}}\,dt$$

Z	n=29	ΔP	n=30	ΔP		ΔP
0	.5000		.5000		.5000	
		.01997		.02030		01983
.1	.6997		.7030		.6983	
		.01509		.01520		.01524
.2	.8506		8550		.8507	
		.00877		.00865		00898
.3	.9383		.9415		.9405	
		.00401		.00386		00397
.4	.9784		.9801		.9812	
		.00150		.00141		00151
.5	.9934		.9942		.9953	
		.00048		00043		.00038
.6	.9982		.9985		.9991	
		.00014		.00012		.00008
.7	.9996		.9997		9999	
		.00003		.00002		
.8	.9999		.9999			
.9						
1.0						

THE BINOMIAL SERIES, A SPECIAL CASE OF BAYES'S THEOREM, AND ITS RELATION TO VARIOUS FREQUENCY LAWS

Approximate Summation of Terms in a Binomial Expansion when the Exponent is Large, by Means of Frequency Laws

An important special case of Bayes's theorem, on the probability of obtaining any given proportion in a second sample based upon information furnished by a first sample, results if there are an infinite number of individuals in the first sample. This is the familiar law: If the probability that an event will happen in a single trial is p and the probability that it will fail is $q=1-p$, then the probabilities of no failure, exactly one failure, exactly two failures, etc., and finally of all or n failures in n trials are given by the successive terms of the binomial expansion

$$(p+q)^n = p^n + np^{n-1}q + \frac{n(n-1)}{1\cdot 2}p^{n-2}q^2 + \frac{n(n-1)(n-2)}{1\cdot 2\cdot 3}p^{n-3}q^3 + \cdots + q^n$$

$$r \quad = 1, \qquad 2, \qquad 3, \qquad\qquad 4, \qquad\qquad \cdots \quad (n+1)$$

where r is the number of the term. Another expression for the value of the rth term is

$$\frac{n!}{(n-r+1)!\,(r-1)!}p^{n-r+1}\,q^{r-1}$$

The labor of computing exactly the terms or sums of terms of the binomial expansion for large values of the exponent n becomes prohibitive. Accordingly there is a tendency to compute the probable error of a proportion by the approximate Bernoullian formula

$$P.\,E. = 0.67449\sqrt{\frac{pq}{n}}$$

unmindful of how it is related to the binomial or how great an error may result from its use.

The terms of the binomial expansion can be regarded as proportional to the frequencies of a frequency distribution, and can be readily computed if n is not large. Several short methods of approximating closely to the sum of any number of terms have been developed that are practicable however large n may be, McEwen (1921), Camp (1924). Certain results of these investigations are presented here to facilitate computations.

According to Edgeworth's extension of the methods by which the normal law was derived, the probability of a departure from the mean equal to or less than x, is approximately, Edgeworth (1906), Tolley (1916).

$$\{\frac{1}{\sqrt{2\pi}}\int_{-\infty}^{t} e^{-\frac{t^2}{2}}\,dt-\left[\frac{1}{\sqrt{2\pi}}e^{-\frac{t^2}{2}}(t^2-1)\,\frac{1}{6}\right]k\}$$

where $t=\frac{x}{\sigma}$ and $k=\frac{\mu_3}{\sigma^3}$, $\sigma^2=$the mean of the squares of the deviations from the mean, or equals the second moment about the mean, and $\mu_3=$the mean of the cubes of the deviations from the mean, or equals the third moment about the mean. The value of the first function

$$\frac{1}{\sqrt{2\pi}}\int_{-\infty}^{t} e^{-\frac{t^2}{2}}\,dt=\tfrac{1}{2}+\frac{1}{\sqrt{2\pi}}\int_{o}^{t} e^{-\frac{t^2}{2}}\,dt$$

is entered in column 2 of table 14, and the function in squared brackets [ ] is entered in column 6. The tabular entries corresponding to positive values of the independent variable $t=x/\sigma$ are entered in column 1. If x/σ is negative subtract the entry in column 2 from 1, but column 6 is independent of the sign of x/σ. In the binomial series $\sigma=\sqrt{npq}$, $k=\frac{p-q}{\sigma}$, and if x has the value $r-(nq+\frac{1}{2})$ the expression { } will be the approximate sum of the first r terms of the binomial expansion.

For example, find the sum of the first two terms and of the first five terms of the expansion $(.9+.1)^{20}$. Substituting in the above formulae

$$\sigma=\sqrt{20\times.9\times.1}=1.342$$
$$k=(.9-.1)\div 1.342=.596$$
$$x=r-2.5$$

To find the sum of the first two terms and the first five terms, put $x=-.5$ and 2.5. x has the values $-.5$ and 2.5 respectively. The corresponding values of x/σ are $-.3727$, and 1.862. Therefore the sum of the first two terms is approximately

$$\{(1-.6453)-[-.053]\ .596\}=.3863$$

and the sum of the first five terms is approximately

$$\{.9687-[.029]\ .596=.951$$

The sums found by direct computation of the terms of the series are respectively .392 and .956.

Another approximate method, especially adapted to finding sums of terms near the extremes of the series, and whose accuracy is but little influenced by asymmetry, was derived from Camp (1924). Begin with

any term T_m, compute directly any number of terms T_{m-1}, T_{m-2}, T_{m-3}, T_{m-4}, etc. in succession where T_m is the largest one and denote the sum of all of the terms from T_m to the end of the series by $S(m)$. Then the following inequality holds

$$T_m+T_{m-1}+T_{m-2}+T_{m-3}+\cdots+T_{m-i}+\frac{T_{m-1-i}}{1-\frac{T_{m-2-i}}{T_{m-1-i}}} > S(m)$$

$$T_m+T_{m-1}+T_{m-2}+T_{m-3}+T_{m-4}+\cdots+T_{m-i}+T_{m-i-1}+T_{m-i-2} < S(m)$$

The mean between the two extreme values approximates more closely to the sum $S(m)$ as the number of terms used increases.

A method especially adapted to cases in which the stump is near the mode, and the binomial is not extremely asymmetrical was derived by Camp (1924, p. 166). The $(t+1)$ term of the binomial series $(p+q)^n$ may be written in the form

$$\frac{n!}{(n-t)!\,t!}p^{n-t}q^t = u(t),$$

where t equals zero corresponds to the first term. The sum of the first $(t+1)$ terms $= S_{t+1}(p)$ is approximately

$$u(t)\left\{\left(\frac{[1-(\tfrac{1}{2}+\int_0^{x_1} e^{-\frac{x^2}{2}}\,dx)]}{e^{-\frac{x_1^2}{2}}}\right)\sigma+\tfrac{1}{2}+E'\right\}$$

where

$$x_1 = -1.0730\frac{\log_{10}(QR)}{\sqrt{\log_{10}R}},\quad Q = u(t-1)\div u(t),\quad R = \frac{u(t-1)}{\sqrt{u(t)\;u(t-2)}}$$

and

$$\sigma = \frac{1}{2.14597\sqrt{\log_{10}R}}.$$

Also for the binomial series

$$Q = \frac{tp}{(n-t+1)q},\text{ and } R = \sqrt{\frac{t(n-t+2)}{(n-t+1)(q-1)}}.$$

The coefficient of σ in the brackets { } is entered in column 8 of table 14 in line with the value of x_1 entered in column 1. E' is a small correction having the value

$$E' = \frac{x_1}{12\sigma}\left[1+\frac{1}{60\sigma^2}(3-x_1^2)+\frac{1}{2520\sigma^4}(15-10x_1^2+x_1^4)\right]$$

Usually the first term $\dfrac{-x_1}{12\sigma}$ is a sufficiently close approximation.

Again, Camp (1924, p. 169) has derived another useful summation formula whose accuracy is but little effected by asymmetry. It is adapted to any part of the series not including the maximum term. In the maximum term the exponent of p is the greatest whole number in $(n+1)p$, and the exponent of q is the greatest whole number in $(n+1)q$, therefore the greatest allowable value of t equals the greatest integer in $(n+1)q-1$. The summation formula is

$$S_{t+1}(p) = \sqrt{\frac{1}{\frac{n-t-1}{p^2}+\frac{t}{q^2}}}\left(\frac{n!\,p^{n-t-1}\,q^t}{(n-q-1)!\,t!}\right)\left(\frac{\left[1-(\tfrac{1}{2}+\int_o^{x_1} e^{-\frac{x^2}{2}}\,dx)\right]}{e^{-\frac{x_1^2}{2}}}\right)_2$$

where

$$x_1 = \left[\frac{n-t-1}{p}-\frac{t}{q}\right]\sqrt{\frac{1}{\frac{n-t-1}{p^2}+\frac{t}{q^2}}}$$

The last factor $(\ )_2$ is entered in column 8 of table 14. If the first factor [ ] in the expression for x_1 is negative, find the sum of the first $(n-t)$ terms of the series $(q+p)^n$ and subtract the result from 1. This is formally equivalent to changing the sign of x_1 from minus to plus, substituting in the above formula for $S_{t+1}(p)$ and subtracting the result from 1.

In case no table of factorials or their logarithms is available, the following approximate formula will be found convenient, and accurate enough for practical work

$$\mathrm{Log}_{10}m! = (m+\tfrac{1}{2})\log_{10}m - 0.434294482m + 0.39909 + \frac{0.036}{m}$$

The proportionate error decreases as the value of m increases, and even for m equal to 10, the relative or proportionate error is less than 4×10^{-5}.

Finally, by means of Pearson's type 3 frequency equation, and its relation to the expansion of the binomial $(p+q)^n$, the rth term can be computed approximately as follows if p and q are unequal. The maximum term equals

$$y_0 = \frac{\sqrt{1+\frac{1}{P_1}}}{\sqrt{2\pi npq}}\left[1-\frac{1}{12P_1}-\frac{1}{288P_1^2}\right]$$

approximately.

This equals

$$y_0 = \frac{(P_1 \qquad)\,e^{\,P_1+1\ \cdot\ -P_1}}{a_1\Gamma(P_1+1)} = \frac{1}{\sqrt{npq}}\ \mathrm{X}\ (P_1)$$

where

$$P_1 = \frac{4npq}{1-4npq} - 1$$

$$a_1 = \frac{P_1(p-q)}{2}$$

and the function $\chi\ (P_1)$ is tabulated in table 4 of Pearson (1922, pp. 153–162). To find the rth term, denoted by y, let $x = r - nq - 1 + \frac{p-q}{2}$ and $X = x + a_1$

$$\text{Then } \operatorname{Log}_{10} y = \log_{10} y_0 + P_1\{\log_{10}(1+X) - X\log_{10} e\}$$

The expression in brackets { } equals $\{\log_{10}(1+X) - 0.4342945X\}$ is tabulated by Pearson (1914, p. XIV and 37). Another form of the last expression { } is

$$\{-0.434295\ (\frac{X^2}{2} - \frac{X^3}{3} + \frac{X^4}{4} - \frac{X^5}{5} + \cdots)\}$$

which is especially convenient for small values of X.

If $(p-q) = 2v$ the following expressions for P_1 and a_1 can be easily derived and are especially convenient when p and q are nearly equal:

$$P_1 = \frac{n}{4v^2} - (n+1)$$

$$a_1 = P_1 v$$

In the special case where $p = q = \frac{1}{2}$ the rth term equals approximately

$$y = \frac{1}{\sqrt{2\pi\sigma}} e^{-\frac{x^2}{2\sigma^2}}$$

where $\sigma = (\frac{1}{2})\sqrt{n}$ and $x = r - \frac{n}{2} - 1$. Therefore to find the rth term y of the expansion $(p+q)^n$ where $p = q = \frac{1}{2}$ divide the entry in column 4, table 14 by $\sigma = (\frac{1}{2})\sqrt{n}$.

The Normal Probability Integral and Certain Related Functions (Table 14)

Table 14

The normal probability integral and certain related functions used in various approximate formulae of the text tabulated with reference to $\frac{x}{\sigma}$.

(All differences Δ correspond to differences of 0.01 in $\frac{x}{\sigma}$)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	$\frac{1}{\sqrt{2\pi}}\int_{-\infty}^{\frac{x}{\sigma}} e^{-\frac{t^2}{2}}\,dt$		$\frac{1}{\sqrt{2\pi}}\,e^{-\frac{x^2}{2\sigma^2}}$		$\frac{1}{6\sqrt{2\pi}}\,e^{-\frac{x^2}{2\sigma^2}}\left(1-\frac{x^2}{\sigma^2}\right)$		$\frac{\int_{\frac{x}{\sigma}}^{\infty} e^{-\frac{t^2}{2}}\,dt}{e^{-\frac{x^2}{2\sigma^2}}}$	
$\frac{x}{\sigma}$		Δ		Δ		Δ		Δ
.00	.50000	.00399	.39894	−.00010	−.06649	.00005	1.25332	−.0096[9]
.05	.51994	.00398	.39844	−.00030	−.06624	.00015	1.20485	−.0091[2]
.10	.53983	.00396	.39695	−.00049	−.06550	.00025	1.15926	−.0085[8]
.15	.55962	.00393	.39448	−.00069	−.06427	.00034	1.11636	−.00808
.20	.57926	.00389	.39104	−.00087	−.06257	.00043	1.07595	−.00763
.25	.59871	.00384	.38667	−.00106	−.06042	.00052	1.03781	−.00720
.30	.61791	.00378	.38139	−.00123	−.05784	.00059	1.00183	−.00680
.35	.63683	.00372	.37524	−.00139	−.05488	.00066	.96783	−.00643
.40	.65542	.00364	.36827	−.00155	−.05156	.00073	.93567	−.00609
.45	.67364	.00356	.36053	−.00169	−.04792	.00078	.90522	−.00577
.50	.69146	.00350	.35206	−.00178	−.04401	.00081	.87638	−.00556
.52	.69847	.00347	.34849	−.00183	−.04238	.00083	.86525	−.00544
.54	.70540	.00343	.34482	−.00188	−.04071	.00084	.85436	−.00533
.56	.71226	.00339	.34105	−.00193	−.03902	.00086	.84369	−.00521
.58	.71904	.00336	.33718	−.00198	−.03729	.00087	.83326	−.00511
.60	.72575	.00331	.33322	−.00202	−.03554	.00088	.82303	−.00500
.62	.73237	.00327	.32918	−.00206	−.03377	.00089	.81302	−.00490
.64	.73891	.00323	.32506	−.00210	−.03199	.00090	.80321	−.00481
.66	.74537	.00319	.32086	−.00213	−.03018	.00090	.79359	−.00472
.68	.75175	.00314	.31659	−.00217	−.02837	.00091	.78414	−.00462
.70	.75804	.00310	.31225	−.00220	−.02654	.00091	.77489	−.00453
.72	.76424	.00305	.30785	−.00223	−.02471	.00091	.76583	−.00444
.74	.77035	.00301	.30339	−.00226	−.02288	.00092	.75695	−.00435
.76	.77637	.00296	.29887	−.00228	−.02104	.00091	.74825	−.00427
.78	.78230	.00292	.29431	−.00231	−.01921	.00091	.73970	−.00418
.80	.78814	.00287	.28969	−.00232	−.01738	.00091	.73133	−.00412
.82	.79389	.00283	.28504	−.00235	−.01556	.00090	.72309	−.00403
.84	.79955	.00278	.28034	−.00236	−.01375	.00089	.71502	−.00396
.86	.80511	.00273	.27562	−.00238	−.01196	.00089	.70710	−.00387
.88	.81057	.00268	.27086	−.00239	−.01018	.00087	.69936	−.00380
.90	.81594	.00263	.26608	−.00239	−.00843	.00087	.69175	−.00374
.92	.82121	.00259	.26129	−.00241	−.00669	.00085	.68426	−.00367
.94	.82639	.00254	.25647	−.00241	−.00498	.00084	.67692	−.00359
.96	.83147	.00249	.25164	−.00241	−.00329	.00083	.66973	−.00356
.98	.83646	.00244	.24681	−.00242	−.00163	.00081	.66261	−.00345

TABLE 14—(*Continued*)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
$\frac{x}{\sigma}$	$\frac{1}{\sqrt{2\pi}}\int_{-\infty}^{\frac{x}{\sigma}} e^{-\frac{t^2}{2}}\,dt$	Δ	$\frac{1}{\sqrt{2\pi}} e^{-\frac{x^2}{2\sigma^2}}$	Δ	$\frac{1}{6\sqrt{2\pi}} e^{-\frac{x^2}{2\sigma^2}}\left(1-\frac{x^2}{\sigma^2}\right)$	Δ	$\frac{\int_{\frac{x}{\sigma}}^{\infty} e^{-\frac{t^2}{2}}\,dt}{e^{-\frac{x^2}{2\sigma^2}}}$	Δ
1.00	.84134	.00240	.24197	−.00242	0	.00080	.65570	−.00343
1.02	.84614	.00234	.23713	−.00241	.00160	.00078	.64884	−.00335
1.04	.85083	.00230	.23230	−.00241	.00316	.00076	.64214	−.00329
1.06	.85543	.00225	.22747	−.00241	.00469	.00074	.63556	−.00323
1.08	.85993	.00220	.22265	−.00240	.00617	.00072	.62910	−.00316
1.10	.86433	.00215	.21785	−.00239	.00762	.00070	.62277	−.00313
1.12	.86864	.00211	.21307	−.00238	.00903	.00068	.61651	−.00308
1.14	.87286	.00206	.20831	−.00237	.01040	.00066	.61034	−.00301
1.16	.87698	.00201	.20357	−.00235	.01173	.00063	.60431	−.00295
1.18	.88100	.00196	.19886	−.00233	.01300	.00062	.59841	−.00292
1.20	.88493	.00192	.19419	−.00232	.01424	.00059	.59256	−.00286
1.22	.88877	.00187	.18954	−.00230	.01543	.00057	.58684	−.00281
1.24	.89251	.00182	.18494	−.00228	.01657	.00054	.58122	−.00276
1.26	.89616	.00178	.18037	−.00226	.01766	.00052	.57570	−.00275
1.28	.89973	.00173	.17585	−.00224	.01871	.00050	.57020	−.00267
1.30	.90320	.00169	.17137	−.00221	.01971	.00047	.56486	−.00263
1.32	.90658	.00165	.16694	−.00219	.02066	.00044	.55960	−.00259
1.34	.90988	.00160	.16255	−.00216	.02155	.00042	.55441	−.00255
1.36	.91308	.00156	.15822	−.00213	.02240	.00040	.54936	−.00254
1.38	.91621	.00151	.15395	−.00211	.02321	.00037	.54427	−.00245
1.40	.91924	.00148	.14973	−.00208	.02396	.00035	.53937	−.00244
1.42	.92220	.00143	.14556	−.00205	.02466	.00032	.53449	−.00240
1.44	.92507	.00139	.14146	−.00202	.02531	.00030	.52969	−.00233
1.46	.92785	.00135	.13742	−.00199	.02592	.00027	.52503	−.00230
1.48	.93056	.00131	.13343	−.00195	.02647	.00025	.52042	−.00229
1.50	.93319	.00127	.12952	−.00193	.02698	.00023	.51583	−.00222
1.52	.93574	.00124	.12566	−.00189	.02744	.00021	.51138	−.00224
1.54	.93822	.00120	.12188	−.00186	.02786	.00018	.50689	−.00217
1.56	.94062	.00116	.11816	−.00183	.02823	.00016	.50254	−.00214
1.58	.94295	.00112	.11450	−.00179	.02856	.00013	.49825	−.00210
1.60	.94520	.00109	.11092	−.00175	.02883	.00012	.49405	−.00207
1.62	.94738	.00106	.10741	−.00172	.02908	.00009	.48990	−.00207
1.64	.94950	.00102	.10396	−.00168	.02927	.00008	.48576	−.00200
1.66	.95154	.00099	.10059	−.00165	.02943	.00006	.48176	−.00198
1.68	.95352	.00095	.09728	−.00161	.02955	.00004	.47780	−.00195
1.70	.95543	.00092	.09405	−.00158	.02963	.00002	.47390	−.00194
1.72	.95728	.00089	.09089	−.00154	.02967	0	.47002	−.00192
1.74	.95907	.00086	.08780	−.00151	.02967	−.00001	.46617	−.00190
1.76	.96080	.00083	.08478	−.00147	.02964	−.00003	.46237	−.00180
1.78	.96246	.00080	.08183	−.00144	.02957	−.00005	.45876	−.00183
1.80	.96407	.00077	.07895	−.00140	.02947	−.00006	.45510	−.00178
1.82	.96562	.00075	.07614	−.00136	.02934	−.00007	.45154	−.00182
1.84	.96712	.00072	.07341	−.00133	.02919	−.00009	.44789	−.00172
1.86	.96856	.00069	.07074	−.00130	.02900	−.00011	.44444	−.00172
1.88	.96995	.00066	.06814	−.00126	.02878	−.00012	.44100	−.00166
1.90	.97128	.00064	.06562	−.00123	.02854	−.00013	.43767	−.00169
1.92	.97257	.00062	.06316	−.00120	.02828	−.00014	.43429	−.00162
1.94	.97381	.00059	.06076	−.00116	.02799	−.00015	.43104	−.00162
1.96	.97500	.00057	.05844	−.00113	.02768	−.00017	.42779	−.00163
1.98	.97615	.00055	.05618	−.00109	.02734	−.00017	.42453	−.00158

TABLE 14—(*Continued*)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	$\frac{1}{\sqrt{2\pi}}\int_{-\infty}^{\frac{x}{\sigma}} e^{-\frac{t^2}{2}}\,dt$		$\frac{1}{\sqrt{2\pi}}\,e^{-\frac{x^2}{2\sigma^2}}$		$\frac{1}{6\sqrt{2\pi}}\,e^{-\frac{x^2}{2\sigma^2}}\left(1-\frac{x^2}{\sigma^2}\right)$		$\frac{\int_{\frac{x}{\sigma}}^{\infty} e^{-\frac{t^2}{2}}\,dt}{e^{-\frac{x^2}{2\sigma^2}}}$	
$\frac{x}{\sigma}$		Δ		Δ		Δ		Δ
2.00	.97725	.00053	.05399	−.00106	.02699	−.00018	.42137	−.00156
2.02	.97831	.00050	.05186	−.00103	.02662	−.00019	.41824	−.00149
2.04	.97932	.00049	.04980	−.00100	.02624	−.00020	.41526	−.00156
2.06	.98030	.00047	.04780	−.00097	.02584	−.00021	.41213	−.00153
2.08	.98124	.00045	.04586	−.00094	.02542	−.00021	.40907	−.00149
2.10	.98214	.00043	.04398	−.00090	.02499	−.00021	.40609	−.00148
2.12	.98300	.00041	.04217	−.00088	.02456	−.00022	.40313	−.00136
2.14	.98382	.00039	.04041	−.00085	.02411	−.00023	.40040	−.00141
2.16	.98461	.00038	.03871	−.00082	.02365	−.00023	.39757	−.00140
2.18	.98537	.00036	.03706	−.00079	.02318	−.00024	.39476	
2.20	.98610	.00034	.03547	−.00076	.02270	−.00024	.39188	−.00144
2.22	.98679	.00033	.03394	−.00074	.02222	−.00024	.38922	−.00140
2.24	.98745	.00032	.03246	−.00071	.02173	−.00024	.38663	−.00140
2.26	.98809	.00030	.03103	−.00069	.02124	−.00024	.38382	−.00135
2.28	.98870	.00029	.02965	−.00066	.02075	−.00024	.38111	−.00135
2.30	.98928	.00027	.02833	−.00064	.02026	−.00025	.37840	−.00121
2.32	.98983	.00026	.02705	−.00061	.01976	−.00025	.37597	−.00131
2.34	.99036	.00025	.02582	−.00059	.01926	−.00025	.37335	−.00113
2.36	.99086	.00024	.02463	−.00057	.01876	−.00025	.37109	−.00121
2.38	.99134		.02349		.01826		.36867	
2.40	.99180	.00022	.02239	−.00052	.01776	−.00024	.36623	−.00129
2.42	.99224	.00021	.02134	−.00050	.01727	−.00024	.36364	−.00130
2.44	.99266	.00019	.02033	−.00048	.01678	−.00024	.36104	−.00102
2.46	.99305	.00019	.01936	−.00047	.01630	−.00024	.35899	−.00115
2.48	.99343	.00018	.01842	−.00044	.01581	−.00023	.35668	−.00121
2.50	.99379	.00017	.01753	−.00043	.01534	−.00024	.35425	−.00106
2.52	.99413	.00016	.01667	−.00041	.01486	−.00023	.35213	−.00130
2.54	.99446	.00015	.01585	−.00039	.01440	−.00023	.34953	−.00112
2.46	.99477	.00014	.01506	−.00038	.01394	−.00023	.34728	−.00091
2.48	.99506	.00014	.01430	−.00036	.01348	−.00022	.34545	−.00115
2.60	.99534	.00013	.01358	−.00034	.01304	−.00022	.34315	−.00090
2.62	.99560	.00012	.01289	−.00034	.01259	−.00021	.34135	−.00101
2.64	.99585	.00012	.01223	−.00031	.01217	−.00021	.33933	−.00113
2.66	.99609	.00011	.01160	−.00030	.01175	−.00021	.33707	−.00126
2.68	.99632	.00010	.01100	−.00029	.01133	−.00020	.33454	−.00076
2.70	.99653	.00010	.01042	−.00027	.01092	−.00020	.33301	−.00136
2.72	.99674	.00009	.00987	−.00026	.01052	−.00020	.33029	−.00097
2.74	.99693	.00009	.00935	−.00025	.01014	−.00019	.32834	−.00089
2.76	.99711	.00008	.00885	−.00024	.00976	−.00018	.32655	−.00079
2.78	.99728	.00008	.00837	−.00022	.00939	−.00018	.32497	−.00087
2.80	.99744	.00008	.00792	−.00022	.00903	−.00018	.32323	−.00118
2.82	.99760	.00007	.00748	−.00020	.00867	−.00017	.32086	−.00060
2.84	.99774	.00007	.00707	−.00019	.00833	−.00017	.31966	−.00115
2.86	.99788	.00006	.00668	−.00018	.00799	−.00016	.31736	−.00099
2.88	.99801	.00006	.00631	−.00018	.00767	−.00016	.31537	−.00054
2.90	.99813	.00006	.00595	−.00016	.00735	−.00015	.31429	−.00145
2.92	.99825	.00005	.00562	−.00016	.00705	−.00015	.31139	−.00098
2.94	.99836	.00005	.00530	−.00015	.00675	−.00015	.30943	−.00040
2.96	.99846	.00005	.00499	−.00014	.00645	−.00014	.30862	−.00112
2.98	.99856	.00004	.00470	−.00013	.00617	−.00013	.30638	−.00082

TABLE 14—(*Continued*)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	$\frac{1}{\sqrt{2\pi}}\int_{-\infty}^{\frac{x}{\sigma}} e^{-\frac{t^2}{2}}\,dt$		$\frac{1}{\sqrt{2\pi}}\,e^{-\frac{x^2}{2\sigma^2}}$		$\frac{1}{6\sqrt{2\pi}}\,e^{-\frac{x^2}{2\sigma^2}}\left(1-\frac{x^2}{\sigma^2}\right)$		$\frac{\int_{\frac{x}{\sigma}}^{\infty} e^{-\frac{t^2}{2}}\,dt}{e^{-\frac{x^2}{2\sigma^2}}}$	
$\frac{\sigma}{x}$		Δ		Δ		Δ		Δ
3.00	.99865	.00004	.00443	−.00013	.00591	−.00013	.30474	−.00129
3.02	.99874	.00004	.00417	−.00012	.00564	−.00012	.30216	−.00095
3.04	.99882	.00003	.00393	−.00012	.00540	−.00013	.30025	+.00028
3.06	.99889	.00003	.00369	−.00011	.00514	−.00011	.30081	−.00055
3.08	.99896	.00003	.00347	−.00010	.00491	−.00011	.29971	−.00154
3.10	.99903	.00003	.00327	−.00010	.00469	−.00011	.29663	−.00173
3.12	.99910	.00002	.00307	−.00009	.00447	−.00011	.29316	+.00099
3.14	.99915	.00003	.00288	−.00008	.00425	−.00010	.29514	−.00181
3.16	.99921	.00002	.00271	−.00008	.00406	−.00010	.29151	−.00008
3.18	.99926	.00002	.00254	−.00008	.00386	−.00010	.29134	−.00071
3.20	.99931	.00002	.00238	−.00007	.00366	−.00010	.28992	−.00210
3.22	.99936	.00002	.00224	−.00007	.00350	−.00008	.28571	0
3.24	.99940	.00002	.00210	−.00007	.00332	−.00009	.28571	0
3.26	.99944	.00002	.00196	−.00006	.00314	−.00007	.28571	−.00155
3.28	.99948	.00002	.00184	−.00006	.00299	−.00008	.28261	−.00177
3.30	.99952	.00001	.00172	−.00005	.00283	−.00007	.27907	+.00021
3.32	.99955	.00001	.00161	−.00005	.00269	−.00006	.27950	−.00067
3.34	.99958	.00001	.00151	−.00005	.00256	−.00007	.27815	−.00077
3.36	.99961	.00001	.00141	−.00004	.00242	−.00007	.27660	−.00193
3.38	.99964	.00001	.00132	−.00004	.00229	−.00006	.27273	+.00184
3.40	.99966	.00001	.00123	−.00004	.00216	−.00005	.27642	−.00343
3.42	.99969	.00001	.00115	−.00004	.00205	−.00006	.26956	+.00073
3.44	.99971	.00001	.00107	−.00003	.00193	−.00005	.27103	−.00051
3.46	.99973	.00001	.00100	−.00003	.00183	−.00004	.27000	−.00202
3.48	.99975	.00001	.00094	−.00003	.00174	−.00005	.26596	−.00079
3.50	.99977	0	.00087	−.00003	.00163	−.00004	.26437	+.00361
3.52	.99978	.00001	.00081	−.00003	.00154	−.00004	.27160	−.00422
3.54	.99980	0	.00076	−.00002	.00146	−.00004	.26316	+.00222
3.56	.99981	.00001	.00071	−.00002	.00138	−.00004	.26761	−.00501
3.58	.99983	0	.00066	−.00002	.00130	−.00004	.25758	+.00235
3.60	.99984	0	.00061	−.00002	.00122	−.00003	.26229	+.00043
3.62	.99985	0	.00057	−.00002	.00115	−.00003	.26316	+.00049
3.64	.99986	0	.00053	−.00002	.00108	−.00003	.26415	+.00058
3.66	.99987	0	.00049	−.00001	.00101	−.00002	.26531	−.00222
3.68	.99988	0	.00046	−.00002	.00096	−.00003	.26087	+.00051
3.70	.99989	0	.00042	−.00001	.00089	−.00003	.26190	−.00274
3.72	.99990	0	.00039	−.00001	.00083	−.00001	.25641	−.00658
3.74	.99991	0	.00037	−.00001	.00080	−.00003	.24324	+.01073
3.76	.99991	0	.00034	−.00001	.00074	−.00002	.26471	−.00332
3.78	.99992	0	.00031	−.00001	.00069	−.00002	.25806	−.00834
3.80	.99993	0	.00029	−.00001	.00065	−.00002	.24138	+.00894
3.82	.99993	0	.00027	−.00001	.00061	−.00002	.25926	−.00963
3.84	.99994	0	.00025	−.00001	.00057	−.00002	.24000	+.01043
3.86	.99994	0	.00023	−.00001	.00053	−.00002	.26087	−.01139
3.88	.99995	0	.00021	0	.00049	−.00001	.23809	+.00595
3.90	.99995	0	.00020	−.00001	.00047	−.00002	.25000	−.01389
3.92	.99996	0	.00018	0	.00043	−.00001	.22222	+.00653
3.94	.99996	0	.00017	0	.00041	−.00001	.23529	+.00735
3.96	.99996	0	.00016	−.00001	.00039	−.00002	.25000	−.01785
3.98	.99997	0	.00014	0	.00035	−.00001	.21429	+.00824
4.00	.99997	0	.00013	0	.00032	0	.23077	

Numerical Illustrations of Computations Relative to the Binomial Expansion

To illustrate the use of the binomial series and the various methods of making the computations, consider the following problem. In a given population suppose the proportion of males to be $p=.52$, and the proportion of females to be $q=.48$. In a sample of $n=750$ individuals there were 410 males and 340 females. The expected numbers are $.52\times750=390$ and $.48\times750=360$ respectively. What is the probability of getting 340 or less females out of 750 individuals drawn at random from the population in which the expected number is 360? In the series

$$(.52+.48)^{750}=.52^{750}+750(.52)^{749}.48+\frac{(750)(749)}{1\cdot2}(.52)^{748}(.48)^{2}+\cdots$$

the first term is the probability of getting no females, the second term is the probability of getting one female, the third term is the probability of getting two females etc. The sum of all of these terms up to and including the 341st term is the probability of getting 340 or less females. The direct computation of each of the 341 terms and the addition of these terms being impracticable it is necessary to resort to some short method that will give a sufficiently close approximation.

Since p and q are nearly equal and n is a large number, the usual probable error method should give a sufficiently accurate result. Substituting in the formula, page 123, gives the probable error in the proportion

$$P.\,E.=.67449\sqrt{\frac{.52\times.48}{750}}=.01230$$

The departure from the expected number is $360-340=20$. The departure from the expected proportion is $20\div750=.0266$. The ratio of the departure to the $P.\,E.$ equals $.0266\div.0123=2.1619$. Corresponding to this ratio a table of the probability integral in terms of the ratio of the departure to the probable error indicated $\frac{1}{2}(1-.8553)=.0723$ as the probability of getting a departure from the expected value equal to or greater than 0.0266.

From the method of page 124 adapted to summing terms of a skew binomial we have

$$\begin{aligned}\sigma&=\sqrt{750\times.52\times.48}=13.682\\ k&=(.52-.48)\div13.682=.00292\\ nq&=.48\times750=360\\ x&=r-(360+.5)\\ t&=x\div13.682\end{aligned}$$

To find the sum of the first 341 terms, substitute 341 for r and obtain the following numerical results $x=-19.5$, $t=-1.425$. The corresponding entry in column 2 of table 14 is .9229, which must be subtracted from 1 since t is negative. The corresponding entry in column 6 is .02474. Finally the desired sum is $1-.9229-.00292\times.02474=.0770$.

From the method of page 125 also adapted to summing terms of a skew binomial we have

$$t=340,\ u(340)=\frac{750!}{410!\times340!}.52^{410}\times.48^{340}=.010029,$$
$$\log Q=1.9523992,\ \log R=0.0011667,\ \log (QR)=-.0464341,$$
$$\sqrt{\log R}=.034157,\ x_1=1.4587,\ \sigma=13.64258,\ E'=0.0089.$$

The entry in column 8 of table 14 corresponding to $x_1=1.4587$ is .52526. Therefore the sum is

$$S_{341}(.52)=.010029\{(.52526)(13.64258)+.5+0.0089\}=.07689.$$

The result of applying the method of page 126 to the same problem is briefly:

$$\left[\frac{409}{.52}-\frac{340}{.48}\right]=78.2051,\ \sqrt{\frac{1}{\frac{409}{.52^2}+\frac{340}{.48^2}}}=.0182932,$$

$$x_1=78.2051\times0.0182932=1.4306,$$

$$S_{341}(.52)=\sqrt{\frac{1}{\frac{409}{.52^2}+\frac{340}{.48^2}}}\,(7.9075)(.53223)=.07699.$$

Finally, the short method of approximating to the value of any term of the binomial (page 127) will be applied to the same problem. Since $(p-q)$ is small

$$v=0.02,\ P_1=750\div(0.0016)-751=467999.0,\ a_1=P_1v=9359.98.$$

The maximum term is approximately

$$y_0=\frac{1}{\sqrt{(2\pi)(750)(.52)(.48)}}=0.029158$$

and $\log_{10}y_0=\bar{2}.4647577$.

Therefore

$$\log_{10}y=\bar{2}.4647577-203249.392\left(\frac{X^2}{2}-\frac{X^3}{3}-\frac{X^4}{4}-\frac{X^5}{5}\right)$$

where $X=x\div9359.98$, and $x=r-360.98$.

The values of $\log_{10} y$ and of y corresponding to a few values of r are listed below, where the characteristic of log y is negative.

r	341	340	339	338	337	336
$\log_{10} y =$	2.00104	3.95342	3.90347	3.851195	3.79658	3.73964
$y =$	0.010024	.008983	.008007	.007099	.006260	.005491

The upper and lower limits for the sum of the first 341 terms found by using the last 8 terms of the group as indicated by the inequalities on page 124 are respectively .0823 and .0548. If 20 terms are used the limits are .07718 and .07500.

Transmitted July 10, 1926.

LITERATURE CITED

Allen, W. E.
1923. Studies on catches of marine phytoplankton made by aid of the Kofoid bucket in 1921. Ecology, **4**, pp. 74–80.

Boring, E. G.
1919. Mathematical *vs.* scientific significance. Psychological Bulletin, **16**, pp. 335–38.

Camp, B. H.
1924. Probability integrals for the point binomial. Biometrika, **16**, pp. 163–71.

Chase, E. M., Church, C. G., Denny, F. E.
1924. Inheritance of composition in fruit through vegetative propagation. U. S. Dept. Agr., Bull. 1255, July 17, pp. 1–18.

Doodson, A. T.
1915–1917. Relation of the mode, median and mean in frequency curves. Biometrika, **11**, 425–29.

Edgeworth, F. Y.
1906. The generalized law of error. Jour. Roy. Stat. Soc., London, **69**, pp. 497–530.

Elderton, W. P.
1903*a*. Interpolation by finite differences. (Two independent variables.) Biometrika, **2**, 105–8.
1903*b*. Tables of powers of natural numbers and of the sums of powers of natural numbers from 1 to 100. *Ibid.*, **2**, 474–80.

Esterly, C. O.
1912. The occurrence and vertical distribution of the Copepoda of the San Diego region with particular reference to nineteen species. Univ. Calif. Publ. Zool., **9**, pp. 253–340, 7 figs. in text.

Ezekiel, M.
1924. A method of handling curvilinear correlation for any number of variables. Jour. Am. Statistical Assoc., **19**, n. s., pp. 431–53.

Fisher, R. A.
1914–1915. Frequency distribution of the values of the correlation coefficient in samples from an indefinitely large population. Biometrika, **10**, 507–21, 1 fig. in text.

Greenwood, M.
1913. On errors of random sampling in certain cases not suitable for the application of a "normal" curve of frequency. Biometrika, **9**, 69–90.

McEwen, G. F.
1920. Direct application of the idea of "random sampling" in estimating the precision of averages, and the significance of differences. Am. Math. Soc. Bull., **26**, pp. 263, 273.
1921. Rapid methods of approximating to terms in a binomial expansion. Quart. Publ. Am. Statistical Assoc., **17**, pp. 606–21.

McEwen, G. F., and Michael, E. L.
1919. The functional relation of one variable to each of a number of correlated variables determined by a method of successive approximation to Group V averages: A contribution to statistical methods. Proc. Acad. Arts and Sciences, **55**, pp. 89–133.

Michael, E. L.
1911. Classification and vertical distribution of the Chaetognatha of the San Diego region including redescription of some doubtful species of the group. Univ. Calif. Publ. Zool., **8**, pp. 21–174, 6 pls., 1 fig. in text.
1921. Effect of upwelling water upon the organic fertility of the sea in the region of southern California. Proc. First Pan-Pacific Sci. Cong., Honolulu, Hawaii, Bernice P. Bishop Museum Special Publication **7** Pt. 2, pp. 555–95, 3 figs. in text.

Newbold, Ethel M.
1923. Note on Dr. Burnside's paper on errors of observation. Biometrika, **15**, 401–6.

Pearson, K.
1907. On the influence of past experience on future expectation. Philos. Mag., ser. 6, **13**, no. 75.
1914. Tables for statisticians and biometricians. Cambridge, Univ. Press, 1914.
1914–1915. Editorial. On the distribution of the standard deviations of small samples: Appendix I to papers by "Student" and R. A. Fisher. Biometrika, **10**, 522–29, 1 fig. in text.
1920. The fundamental problem of practical statistics. *Ibid.*, **13**, pp. 1–16.
1922. Tables of the incomplete Γ function (London, H. M. Stationery Office), **31**, 164.
1924*a*. On the moments of the hypergeometrical series. Biometrika, **16**, pp. 156–62.
1924*b*. Note on Bayes's theorem. *Ibid.*, **16**, pp. 190–93.
1924*c*. Note on the relationship of the incomplete B-function to the sum of the first p terms of the binomial expansion $(a+b)^n$. *Ibid.*, **16**, pp. 202–3.
1924*d*. Historical note on the origin of the normal curve of error. *Ibid.*, **16**, pp. 402–4.

Poincare, H.
1912. Calcul des probabilites. (Gauthier-Villars, Paris), **333**, 18 figs. in text.

Scofield, C. S.
1918. Effect of farm manure in stimulating the yields of irrigated farm crops. Jour. Agr. Res., **15**, 493–503.

Shewhart, W. A.
1924. Some applications of statistical methods to the analysis of physical and engineering data. The Bell System Tech. Jour., **3**, pp. 43–87, 13 figs. in text.
1926. Correction of data for errors of averages obtained from small samples. *Ibid.*, **5**, pp. 308–19, 7 figs. in text.

Soper, H. E.
1913. On the probable error of the correlation coefficient to a second approximation. Biometrika, **9**, 91–115, 6 figs. in text.
1914–1915. Tables of Poisson's exponential binomial limit. *Ibid.*, **10**, 25–35.

Soper, H. E., Young, W. A. W., Cave, B. M., Lee, A., Pearson, K.
1915–1917. On the distribution of the correlation coefficient in small samples. Appendix 2 to the papers of "Student" and A. R. Fisher. A cooperative study. *Ibid.*, **11**, 328–413, pls. 24–28.

"Student"
1908–1909. The probable error of a mean. Biometrika, **6**, 1–25.
1915–1917. Tables for estimating the probability that the mean of a unique sample of observations lies between $-\infty$ and any given distance of the mean of the population from which the sample is drawn. *Ibid.*, **11**, 414–17.
1918–1919. An explanation of deviations from Poisson's law in practice. *Ibid.*, **12**, 211–15.
1923. On testing varieties of cereals. *Ibid.*, **15**, 272–93.

Sumner, Francis B.
1909. Some effects of external conditions upon the white mouse. Jour. Exper. Zool., **7**, 97–155, 14 figs. in text.

Timerding, H. E.
1908. Versuch zur Losung eines Problems der Wahrscheinlichkeitsrechnung. No. 169 of Ostwald's Klassiker der exakten Wissenschaften (Engelman, Leipzig), **59**, 2 figs. in text.

Tolley, Howard S.
1916. Frequency curves of climatic phenomena. Mo. Weather Rev., **44**, pp. 634–42, 4 figs. in text.

Wells, P. V., and Wells, W. F.
1921. On the dilution method of counting bacteria. Jour. Wash. Acad. Sci., **11**, 265–73, 1 fig. in text.

Whitaker, Lucy
1914–1915. On the Poisson law of small numbers. Biometrika, **10**, pp. 36–71, pl. 7.

Wier, W. W.
1925. Limitations of "Student's" method when applied to fertilizer experiments. Jour. Agr. Res., **31**, pp. 949–56.

Wishart, John
1927. On the approximate quadrature of certain curves with an account of the researches of Thomas Bayes. Biometrika, **19**, 1–38, 4 figs. in text.

Woodward, R. S.
1900. Probability and theory of errors. (Chap. 10 in text-book on Higher Mathematics by Merriman and Woodward, ed. 3, Wiley and Sons, New York City), pp. 467–597.

Young, Andrew W.
1915–1917. Note on the standard deviations of samples of two or three. Biometrika, **11**, 277–80.

Zeleny, Charles
1909. The effect of successive removal upon the rate of regeneration. Jour. Exper. Zool., **7**, 477–512.

16. Review of Five Years of Studies on Phytoplankton at Southern California Piers, 1920–1924 Inclusive, by Winfred Emory Allen. November, 1928 ..... .55

VOLUME 2. 1929–

1. Methods of Estimating the Significance of Differences in or Probabilities of Fluctuations Due to Random Sampling. Numerical Illustrations, Formulae, and Tables Prepared Especially for Estimating Probabilities when the Usual "Method of Least Squares" or "Normal Law of Error" May not Apply, by George Francis McEwen. March 1929 ..... 1.70